

KENT-MOORE ***RATE-MAKER***[®] Service Tools

PASSENGER CAR EDITION
FALL 1970

INTRODUCTION

Kent-Moore "Rate-Maker" special service tools are designed in cooperation with product manufacturers to insure the proper tool is available for the job. In development of these tools many factors are considered—

1. No standard hand tool can perform the job properly.
2. The tool is designed for efficiency.
3. Parts damage is eliminated through design.
4. Profit for the service department and assurance of a job done right.

The leading manufacturers are served by Kent-

Moore's research design, manufacturing and distribution facilities throughout the world.

The maintenance manuals of this impressive segment of American industry, recommend Kent-Moore tools to perform service jobs according to factory specifications. Complete step by step instructions are shown in their manuals.

All Kent-Moore tools and equipment are thoroughly inspected before leaving our plants and each customer is assured of receiving a new tool of equal quality and design as that furnished to everyone else.

Every tool must conform to rigid standards. There are no "seconds" in the Kent-Moore line.

DOING BUSINESS WITH STD

HOW TO ORDER To order; all you need is the "J" tool number, your complete name and address, then mail or phone to *One Place*. Service Tool Division, Kent-Moore Corporation, 1501 South Jackson Street, Jackson, Michigan 49203. Phone: 517-784-8561, Telex: 517-022-3413. All our tools carry a "J" prefix letter and it is very important that you use this "J" letter for us to properly identify your requirements.

WHO MAY ORDER ANYONE may order Kent-Moore tools direct from Kent-Moore, from anywhere in the world.

HOW TO USE CATALOG Our Kent-Moore Service Tool Catalog has been developed to help you find the special service tools you need with the least amount of effort in the least amount of time. If you just know the number of the tool you need, refer to the NUMERICAL INDEX contained on the PRICE LIST included with this catalog to find the page number containing description and illustration. Or, if you know the tool number and its section of use, refer to the pages listed under the INDEX TO SECTIONS there you will find the tools you need listed in numerical sequence.

THOSE WHO ARE ORDERING FOR THE FIRST TIME

1. Select the tools required.
2. State quantity, "J" Tool number and complete description of each item.
3. Order on your purchase order, letterhead paper, postcard, or use one of the self mailing order blanks provided with the catalog.
4. Be sure you have your complete name, address, and zip code number on the order.
5. Include credit references if open account requested (bank plus two trade references).

TERMS Open Account (Approved credit), C.O.D. or cash (check attached).

SHIPMENTS Shipment will be made F.O.B. Jackson, Michigan.

TAXES State and local sales and/or use tax will be added to order if applicable.

ROUTING Shipments will be made by any method you specify on your order. Here are most of the methods you may choose from:

United Parcel Service (Weight limit 50 lbs.)

Parcel Post (Weight limit 40 lbs.)

Parcel Post Special Handling (keeps package out of big city post offices enroute).

Parcel Post Special Delivery

Air Parcel Post

Air Parcel Post Special Delivery

R.E.A. Express, or Air Express

Truck (there are a number of Trucking Co's., specify if you have a preference).

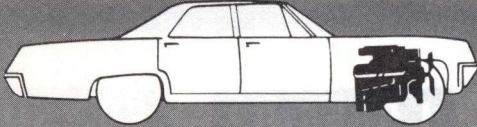
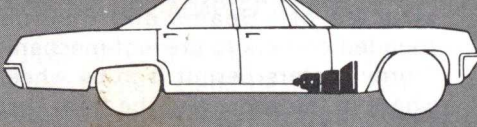
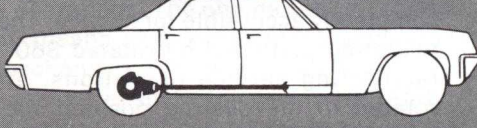
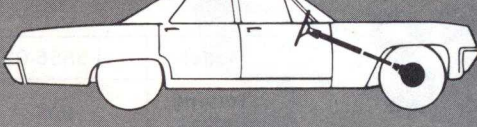

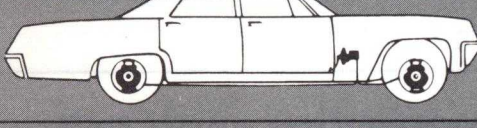

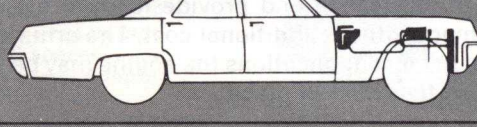

Air Freight

CUSTOMER SPECIAL SERVICE To assist in the unusual situation regarding:

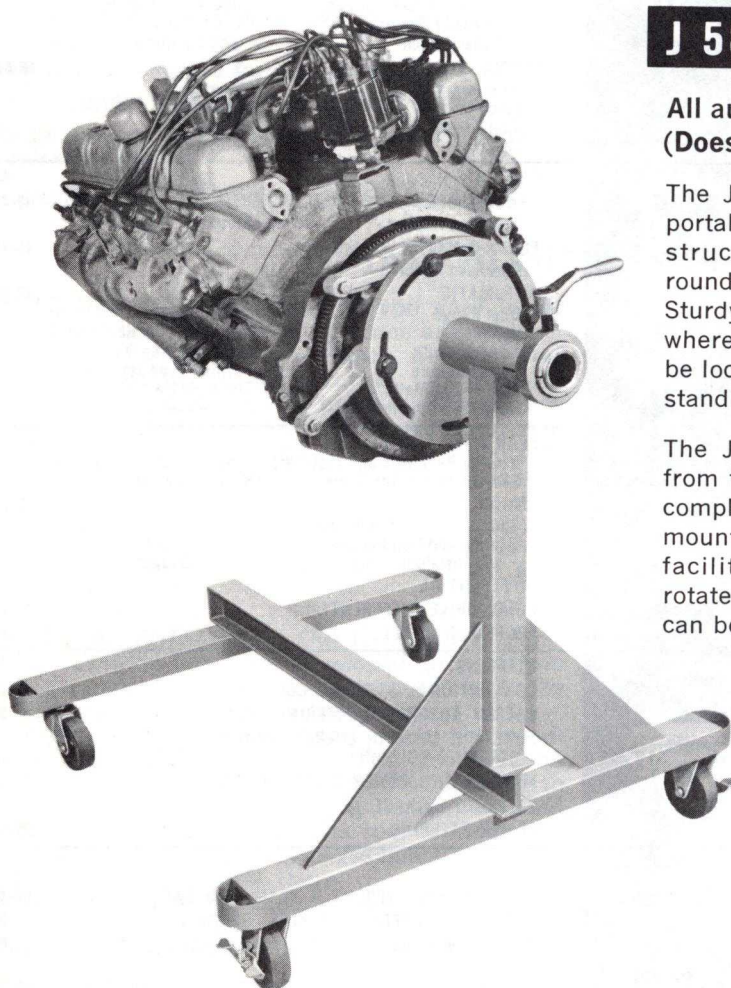
- A. Emergency Orders—Try to call before 11:00 A.M.—Jackson, Mich. time (EST)
- B. Service Parts—Prices and Part Numbers of service parts or individual tools making up a tool set are shown in this catalog and price list. All Kent-Moore products are serviced and replacement items are available from stock. To order or obtain price information on unidentified parts, please describe the required part as thoroughly as possible using whatever tool numbers are available and giving use of required item.
- C. Assistance in Ordering—If you do not know what you need, send us as much information as possible, like a rough sketch, name of the part etc. or phone us. We have five (5) phones with personnel ready and willing to help you.
- D. Inquiries—If you need information about orders already placed—For advice on ordering—Service Parts or General Assistance—contact Customer Service Manager—Service Tool Division, Kent-Moore Corporation, Jackson, Michigan 49203, Phone: 527-784-8561, Telex: 527-022-3413.

REMEMBER To give us complete "Sold To" address. This is the point you want the invoice sent. The complete "Ship To" address. This is the point you want the tools shipped. If "Sold To" and "Ship To" are same then write in Ship To "The Same". Be sure and show your purchase order number, if you use P.O. No's. and your complete address with zip code number. Please print or type so we will not make any mistake, in writing up your name, address and tools ordered. Remember—we can give far better service if we don't have to guess. Thank you.

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ENGINE HOLDING DEVICES



J 5856-02

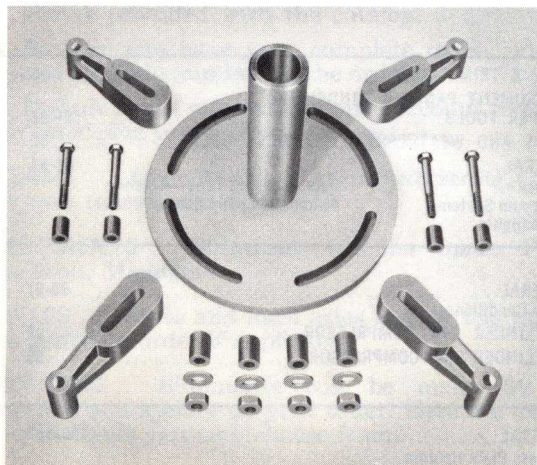
**All automotive engines to 750 lbs.
(Does Not Include Adapter Plate)**

The J 5856-02 engine stand is completely portable and compact. It is durably constructed of I-Beams and Channels with rounded corners to prevent mechanic injury. Sturdy casters permit it to be wheeled anywhere in the shop, and the front casters can be locked in position to hold the engine and stand securely during engine disassembly.

The J 5856-02 stand supports the engine from the bell housing end making all areas completely accessible for service. The engine mounting plate can be rotated 360° further facilitating service operations, and once rotated to the desired position the engine can be locked securely for maximum safety.

Model	J 5856-02
Working Height	25"
Length	36"
Width	29"

J 8690-04 (Used with J-5856-02)



J 8690-04 UNIVERSAL ADAPTER PLATE.

A truly unique design in engine holding fixtures, the J 8690-04 eliminates the problem of having a series of individual plates for each engine. Cast steel arms rotate to any combination of engine mounting hole positions for fast, fool-proof connection. The design of the J 8690-04 incorporates rotating arms which eliminate adapter plate obsolescence and provide for future engine development without additional cost. The arms are offset so that in most applications the engine may be mounted with the fly-wheel in place.

WRITE FOR SPECIAL BROCHURE ON STD. COMPLETE LINE OF ENGINE STANDS

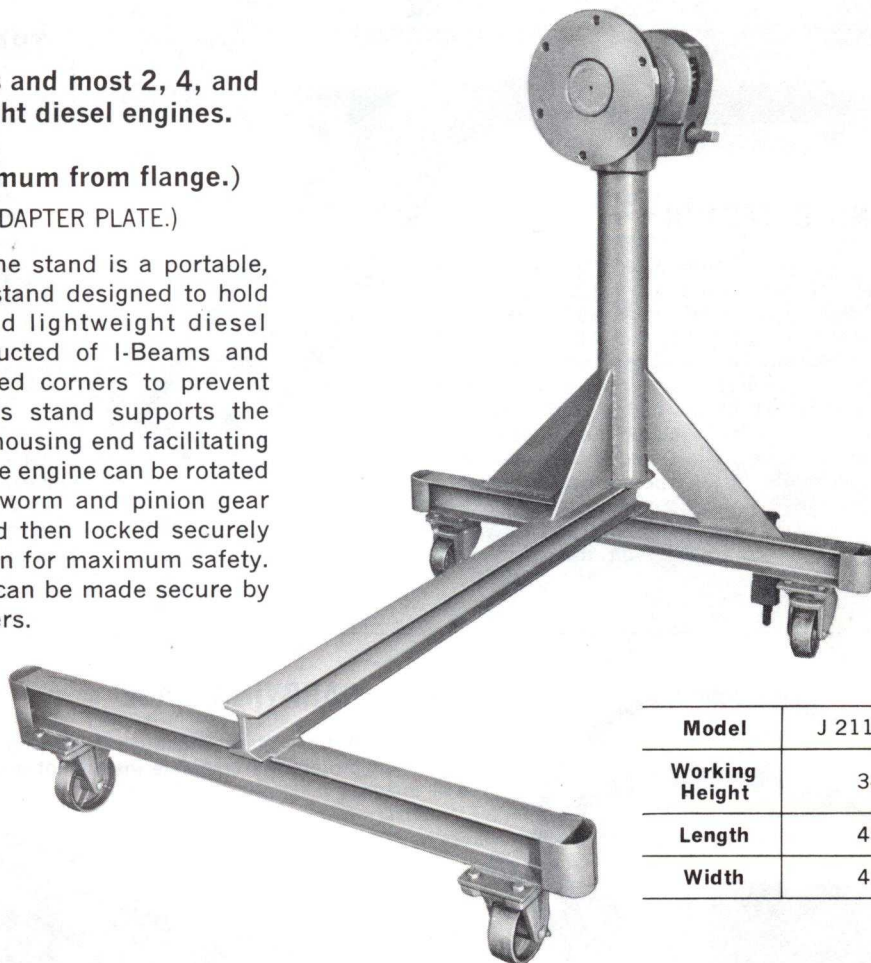
ENGINE HOLDING DEVICES

J 21167-02

Automotive engines and most 2, 4, and 6 cylinder lightweight diesel engines.
(Stand capacity—
1800 lbs. 24" maximum from flange.)

(DOES NOT INCLUDE ADAPTER PLATE.)

The J 21167-02 engine stand is a portable, durably constructed stand designed to hold both automotive and lightweight diesel engines. It is constructed of I-Beams and Channels with rounded corners to prevent mechanic injury. This stand supports the engine from the bell housing end facilitating service operations. The engine can be rotated 360° by means of a worm and pinion gear drive mechanism, and then locked securely in any desired position for maximum safety. Also, the stand itself can be made secure by locking the front casters.

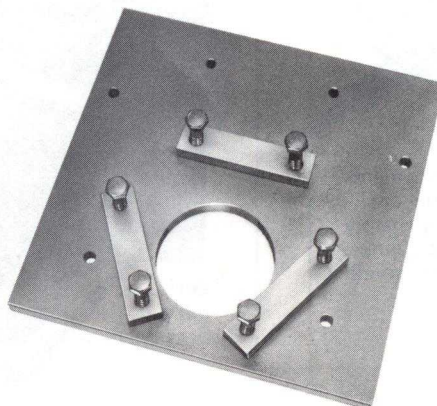


Model	J 21167-02
Working Height	34"
Length	48"
Width	42½"

J 21982

The following adapter plates are available for the J 21167-02 stand:

- J 6388 GM 2-71
 - J 7622-01 GM 4-53
 - J 8198-01 GM 2-51 & 4-51
 - J 8683 GM 6V-53
 - J 21982 Toro-flow & GM 849
 - J 21316-01 Universal Adapter Arms (except Cadillac 472 & 500 cu. in. engine)
- If you have J 8690-04 you only need to order J 00000 spacer
- J 22846 Engine Stand Adapter Plate Kit (Cadillac 472 & 500 cu. in. engine)



J 22846

ENGINE STAND ADAPTER PLATE KIT



WRITE FOR SPECIAL BROCHURE ON STD. COMPLETE LINE OF ENGINE STANDS

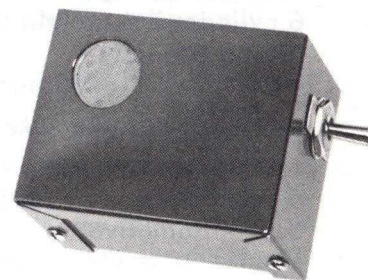
THE LISTENER J 23455-01



SOUND DETECTOR

The Detector is the sound detecting device which picks up only the sound in the range of 35,000 to 45,000 cycles per second and converts these ultrasonic sounds into comparative audible sounds and meter readings. The readings are transmitted through a conveniently located meter at the rear of the Detector. Both the audible signal and the meter reading can be calibrated independently for varied requirements. The Detector is housed in a rugged aluminum pistol-type die casting suitable where rough treatment is encountered. The circuitry is solid-state throughout and power is supplied by a standard 9-volt transistor radio battery.

TRANSMITTER



The Transmitter is a device that emits an ultrasonic sound which is detected when using J 23455-5. This unit's circuitry is solid-state throughout and is powered by a standard 9-volt transistor radio battery, good for over 80 hours of life.



HEADPHONES

The headphones are invaluable in noisy environments as encountered in many service and industrial applications. They increase effective sensitivity by sharply reducing the intensity of outside interfering sounds. They must be used in detecting the audible sound when using J 23455-5 Detector.

CARRYING CASE

A fiber glass constructed carrying case lined with styrafoam to protect the complete instrument during transport or storage.



WHY LISTEN

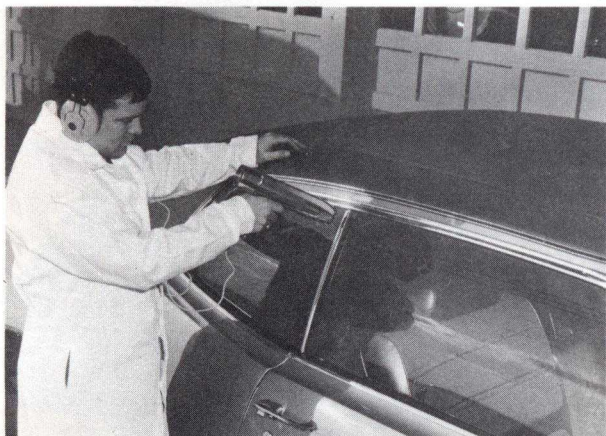
Listening has long been one of the technician's best diagnostic tools. The technician has been able to detect major exhaust leaks, air leaks and other related problems using his own listening capability. The major problem with human ear "listening" is that it is often difficult to isolate the exact point or area where the problem exists. To better isolate this problem, the technician has obtained supporting diagnostic instruments,

such as stethoscopes and probe listening devices, to increase his listening capabilities.

WHY LISTENER

The Listener is a recently developed sophisticated, easily used, electronic device that enables the technician to listen and meter ultrasonic sounds. Basically it is an ultra-sensitive microphone and amplifier which detects sounds in the 35,000 to 45,000 cycles per second range.

1. PINPOINT AIR LEAKS



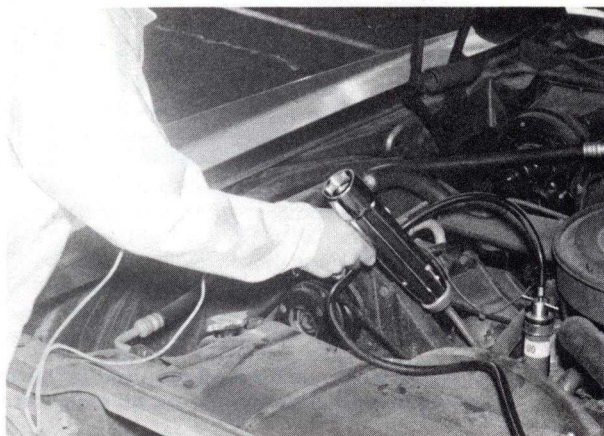
Air leaks are easily located when using the Listener. The Transmitter is placed in the passenger compartment of the vehicle and the Detector is systematically moved around the exterior sealing areas. Any air leak in these sealing areas will be heard through the headset as an increase in audible sound or visually as a meter change. The Listener eliminates the guesswork in detecting air leaks, thus giving your technicians more time to do other service operations.

3. PINPOINT WATER LEAKS



Water leaks can be found by placing the Transmitter in the compartment is question. As in the case with air leaks the Detector will indicate the location of water leaks by an increase in the audible sound or as an increase on the meter.

2. PINPOINT ENGINE LEAKS

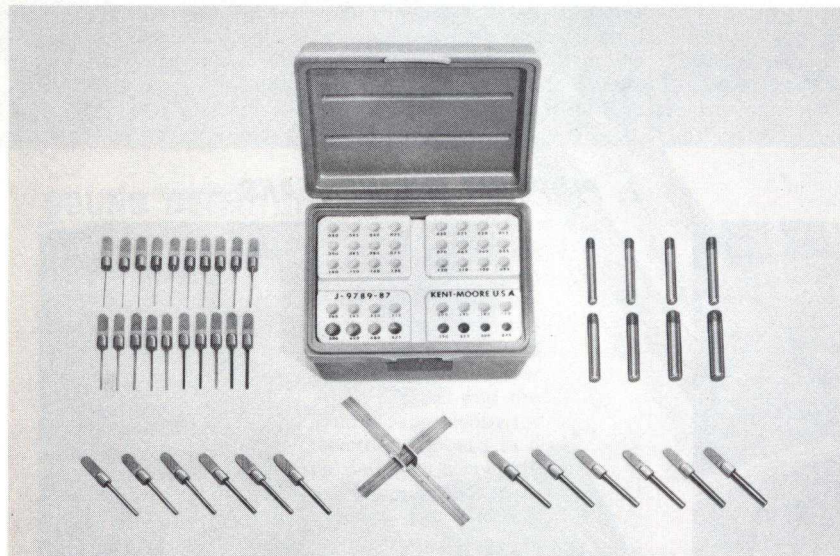


By using the specially engineered adapter kit (J 23583) engine oil leaks can be quickly located with the Listener. The adapter kit enables the technician to lightly pressurize the engine compartment. Any air escaping from the system will generate an ultrasonic sound which then is easily detected by the Listener. Typical oil leaks which can be detected in this manner are seals, gaskets, metal porosity and loose or missing bolts.

Below is a partial list of vehicle applications in which the Listener is helpful in the detection of leaks. The Listener also has widespread use in the shop or home wherever there is a closed system, vacuum or pressure leak.

Other Potential Leak Detecting Applications

1. Transmissions
2. Rear axle assemblies
3. Tires
4. Air brake systems
5. Gas tanks
6. Radiators
7. A/C condensers
8. Heater cores
9. Evaporative emissions control systems
10. Exhaust systems
11. Power brake assemblies
12. Air compressor system
13. Air ride systems

J 9789-01 UNIVERSAL CARBURETOR GAUGE SET

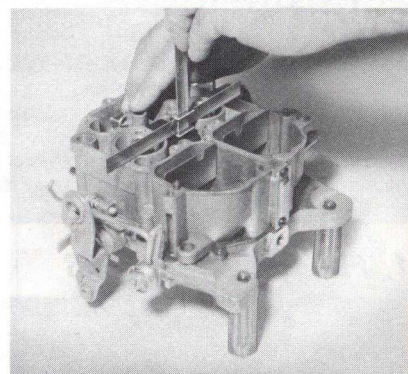
Now you can perform all required carburetor settings and adjustments on all carburetors.

The J 9789-02 Universal Carburetor Gauge Set provides the most convenient and economical method of rapidly performing complete and efficient carburetor service.

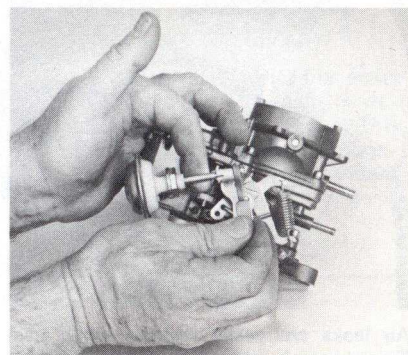
Easy to use, this set eliminates the need for you to purchase additional gauges every time you desire to service a new or different carburetor.

The J 9789-02 Universal Carburetor Gauge Set consists of the following items :
 .015, .020, .025, .030, .035, .040, .045, .050, .055, .060, .065, .070, .075, .080, .085, .090, .095, .100, .110, .120, .130, .140, .150, .160, .170, .180, .190, .200, .215, .230, .245, and .260 wire gauges.
 .275, .300, .325, .350, .375, .400, .450, and .500 plug gauges. Also, an adjustable sliding scale for float drop and other measurements.

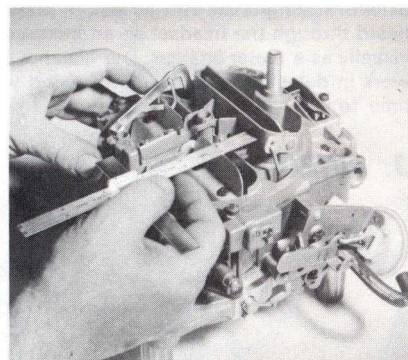
$\frac{1}{64}$ —.015625	$\frac{5}{64}$ —.140625	$\frac{11}{64}$ —.265625	$\frac{29}{64}$ —.390625
$\frac{1}{32}$ —.03125	$\frac{5}{32}$ —.15625	$\frac{9}{32}$ —.28125	$\frac{13}{32}$ —.40625
$\frac{3}{64}$ —.046875	$\frac{11}{64}$ —.171875	$\frac{19}{64}$ —.296875	$\frac{27}{64}$ —.421875
$\frac{1}{16}$ —.0625	$\frac{3}{16}$ —.1875	$\frac{5}{16}$ —.3125	$\frac{7}{16}$ —.4375
$\frac{1}{64}$ —.078125	$\frac{13}{64}$ —.203125	$\frac{21}{64}$ —.328125	$\frac{29}{64}$ —.453125
$\frac{1}{32}$ —.09375	$\frac{7}{32}$ —.21875	$\frac{11}{32}$ —.34375	$\frac{15}{32}$ —.46875
$\frac{1}{64}$ —.109375	$\frac{15}{64}$ —.234375	$\frac{23}{64}$ —.359375	$\frac{31}{64}$ —.484375
$\frac{1}{8}$ —.1250	$\frac{1}{4}$ —.2500	$\frac{3}{8}$ —.3750	$\frac{1}{2}$ —.5000



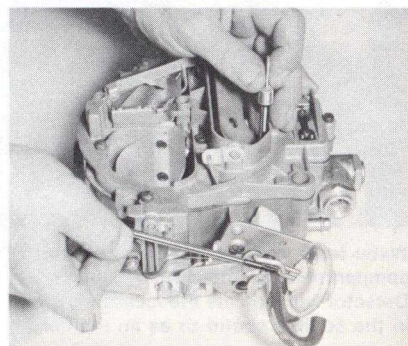
Float Level Adjustment



Dash Pot Adjustment



Air Valve Adjustment

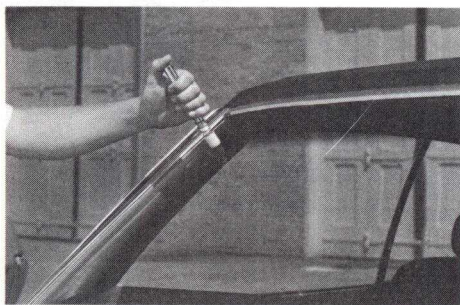


Choke Unloader Adjustment

J 23673 Mechanical Tube Bender

This complete bending kit includes components required for $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " tubing and comes in its own molded carrying case.

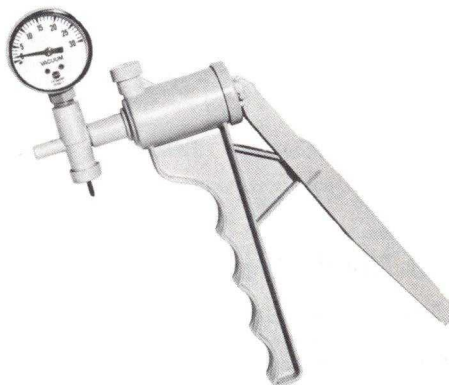
Bends can be formed with no distortion, collapse or kinking of tubing and can be easily formed with one hand. Predetermined dimensions and angles can easily be formed by following the instructions included with the unit.

J 23520 Windshield Antenna Tester

Certain vehicles have the radio antenna incorporated in the front windshield glass. The recommended way to check the antenna is to use J 23520 as follows: With the car radio on the A.M. Band—Tune the receiver to an open location. Move the Tester along the windshield where the antenna is visible. A buzzing will be heard from the radio speaker if the antenna is working properly.

**J 23688 Hydro-Spy
(Battery & Anti-Freeze Tester)**

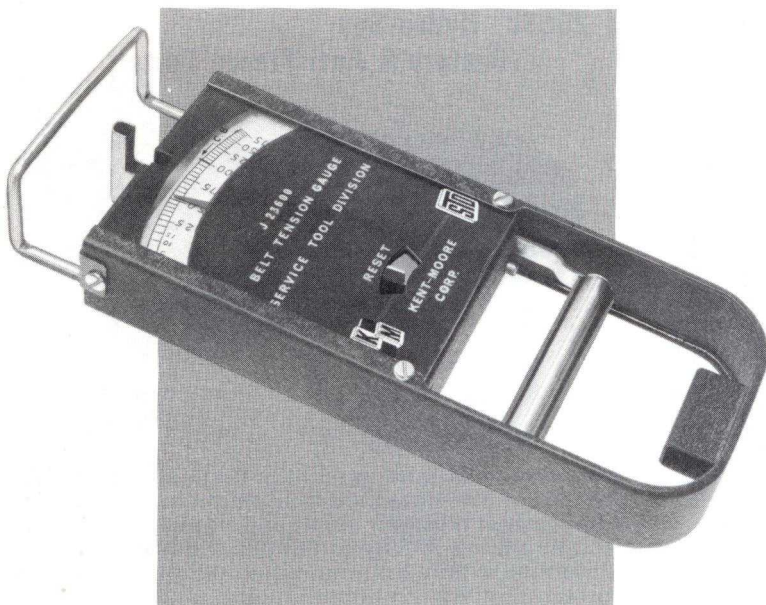
This tester is designed specifically for rapid and accurate checking of anti-freeze protection *and* battery charge. Only a few drops of coolant or battery acid are required to take an accurate reading. The Hydro-Spy automatically corrects for temperature so there is no waiting until the engine is warmed up because it works when the coolant is hot or cold. The scales are easily read and the heavy duty die cast body is covered with a protective vinyl housing thus providing for rugged use. You can even drop it without fear of damage since there are no floats or glass tubes to break.

J 23738 Hand Operated Vacuum Device

This easily operated device provides a quick, efficient method of checking vacuum systems for leaks. J 23738 provides for bench checks on valves, switches, diaphragms and other vacuum components prior to installation on the automobile.

Some of the many uses of this tool are listed below:

1. Check vacuum advancements relative to specifications on a component.
2. Checking vacuum brake units for choke and throttle control.
3. Tune up vacuum modulator on transmission, checking for leaks and modulation.
4. Check operation of C.C.S. units in air cleaner.
5. Check out operation of air conditioning and vent doors.
6. Check vacuum door and trunk locks on previous models.



J 23600 Belt Tension Gauge

The importance of correct belt tension has brought about the development of this new Kent-Moore Belt Tension Gauge. It gives the technician a fast, easy and accurate means of checking the tension of compressor, power steering, fan and generator belts.

The J 23600 incorporates new features which help the service technician do a correct job in less time. A positive stop insures accurate readings and repeatability. The use of a reset button and lazy hand pointer enables the technician to reach awkward locations, make a check and remove the gauge to make his reading. The all steel constructed case makes the gauge rugged and durable so that it can withstand the punishment it will receive in your service area.



J 23400 Electronic Leak Detector

This Portable Electronic Leak Detector is uniquely designed for automotive air conditioning service and specifically tailored for the technicians' easy use. J 23400 is constructed of a high impact resistant molded cyclocac with a highly polished chrome plated finish. The detector operates on a new principle of refrigerant leak detection called DIELECTRIC DIFFERENTIAL. While sophisticated in name this leak "Gun" is relatively simple in function.

The trigger knob duals as an on-off switch and a calibration control. When the detector senses a refrigerant leak, an audible signal is emitted. While most leaks will be found with the probe positioned on the "Gun", the flexible lead can be removed and extended up to five (5) feet for locating leaks in hard to get at areas.

J 23500 Portable Air Conditioner Service Station (HEATED)

J 23500 is a compactly styled portable service station of evacuating and charging equipment. It is designed to allow service technicians to easily do a first rate job of servicing automotive air conditioners.

This station is equipped with a controlled heated cylinder which assures a complete charge into the high pressure side of the compressor. This feature reduces the charging time considerably and enables a complete and accurately measured charge without running the car!

J 23500 service station is supplied with a cylinder pressure gauge and a sight glass which is graduated so that compensation for refrigerant expansion can easily be made.

This equipment reduces air conditioner servicing to a simple hook-up and manipulation of clearly labelled valves.

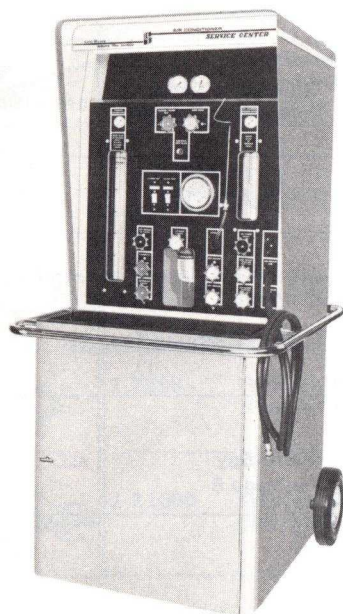
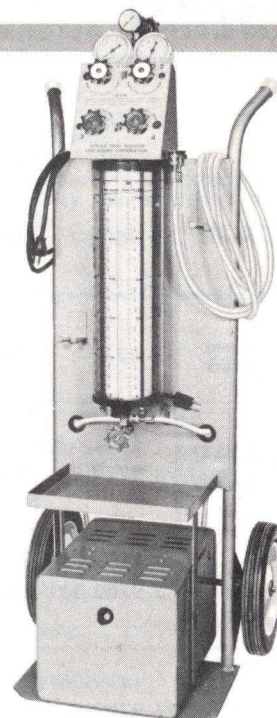
FEATURES

Vacuum Pump—quick, efficient, durable—pulls practically absolute vacuum on any car conditioner, facilitating removal of moisture and contamination.

Control Panel Assembly—complete with manifold, 500 pound and combination low pressure vacuum gauges. Five U. S. Rubber high-strength hoses, quick connect adapters, control valves and readily visible, compact instructions. Refrigerant Drum Adapter—J 8695-18 and Gauge Adapters J 5420 and J 9459 for Schrader valves included.

Charging Cylinder—Eliminates weighing refrigerant. Completely shielded with high strength plastic for complete safety.

Sturdy Construction—Big wheels and no slide design make the unit completely portable and practical.



J 22110 Air Conditioner Service Center

The increased volume of automotive air conditioner service work has created the need for a faster and more efficient method of diagnosing the complete system for maximum trouble free-operation.

The J 22110 Service Center incorporates all the desired operational features to make it the ultimate in equipment now available to the automotive air conditioner service industry.

AIR CONDITIONING CHARGING AND EVACUATION SYSTEM:

- Completely controlled from the illuminated front panel of the Service Center.
- The gauge manifold system consists of a new Teflon seated manifold with 2 1/2" Dial Faced Gauges, A 0-500 lb. high pressure gauge and a (0-30" mercury vacuum & 0-120 p.s.i.) Compound Gauge—Both gauges have silicon treated movements.
- An accurately calibrated 5 lb. charging cylinder with a controlled heating element, automatically compensates for refrigerant expansion at various pressures. Has easy to read 1/8 lb. graduations. The extra large 3/8"

diameter charging lines come complete with angle adapters.

- A high capacity single stage vacuum pump with vented exhaust is of highest quality.

COMPRESSOR OIL SERVICE ON FACTORY INSTALLED G.M. SYSTEMS:

J 22110 includes a method to remove, examine, and replace compressor oil without removing the compressor. The oil charging cylinder is graduated in easy to read one ounce increments and has a 32 ounce capacity.

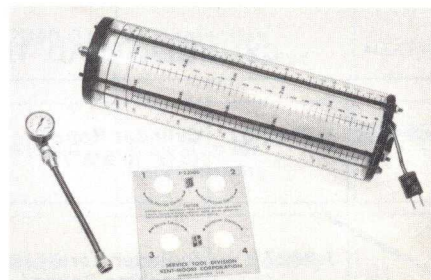
CABINET ASSEMBLY

- The attractive cabinet is sturdily constructed of 18 gauge steel 67" high x 35" wide x 36" deep—Big 10" rear wheels for complete portability to move around shop—gray hammerloid finish—Chrome door latches and handle bar—Black control panel with color coded knobs.
- The rear of the cabinet has a full length piano hinged door to accommodate even the largest of refrigerant drums (145 lbs.) on a unique pivoting tank cradle.
- A handy vacuum molded plastic tool tray is located below the front control panel. The lower portion of the cabinet provides a spacious tool and parts storage area.















J 23510 Portable Air Conditioner Service Station Conversion Kit

to convert Non-heated charging station






Those presently equipped with a J 8393, J 8393-01 or J 8393-02 Charging Station now have the opportunity to update their stations to incorporate the controlled heated cylinder features. With this simple to "hook-up" conversion kit you will upgrade your Air Conditioning Service capabilities considerably!



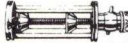



GENERAL ALTERNATOR, GENERATOR AND STARTER TOOLS

	J 5184	Brush Tension Scale	ALL—Generators & Starters		J 21053	Alternator Output Test Adapter	DELCO TRON
	J 9600-2	Diode Remover	DELCO TRON		J 21154	Bearing & Snap Ring Installer	MOTOROLA
	J 9717-1	Diode Remover	DELCO TRON		J 21155	Bearing Remover	MOTOROLA
	J 9717-2	Diode Support	DELCO TRON		J 21156	Front Housing to Rotor Installer	MOTOROLA
	J 9782-1	Jumper Lead	DELCO TRON & MOTOROLA		J 21157	Snap Ring Remover #23—45° (Internal)	MOTOROLA
	J 9782-3	Four-Wire Connector	MOTOROLA & DELCO TRON		J 21501	Torque Adapter—Pulley Retaining Nut	DELCO TRON
	J 21008	Diode Test Light & Continuity Checker	ALL		J 23526	Alternator Diode Remover & Installer	OPEL—1970




BATTERY TOOLS

	J 8047	Battery Post & Terminal Cleaning Brush	ALL		J 23686	Battery Carrying Tool	ALL
	J 8127	Battery Service Tool Set	ALL		J 23688	Hydro-Spy See page 6	ALL
	J 21890	Battery Tester	ALL				

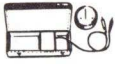






CYLINDER HEAD TOOLS

	J 5902-01	Cylinder Hone (2½" to 5¾")	ALL		J 8089	Carbon Removing Brush	ALL
	J 8087	Cylinder Bore Checking Gauge	ALL		J 8358	Carbon Removing Brush (Aluminum Heads)	ALL



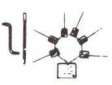


GENERAL DISTRIBUTOR TOOLS

	J 8009	Distributor Cap Terminal Cleaner	ALL		J 22967-01	Carburetor and Distributor Adjusting Tool (Includes) 1/8" Key Bit Assy., Screw Driver Bit	ALL—Delco with Side Opening
	J 10250-01	Distributor Tool Kit	HOLLEY				







ELECTRICAL

	J 8681	Short Checker	UNIVERSAL		J 22516	Starter Pole Screw Wrench	AMER. MTRS.—1966-1968
	J 21264	Transistor Ignition Distributor Alignment Gauge	PONTIAC		J 22694	Spark Plug Socket (All 5/8" Hex Plugs)	ALL GM
	J 21350	Spark Plug Terminal Clip Pliers	ALL		J 22727	Terminal Remover	AMER. MTRS., BUICK, CADILLAC, CHEVROLET, OLDS., PONTIAC
	J 21825	Solderless Terminal Crimping Tool	ALL				







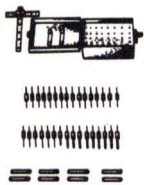











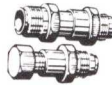

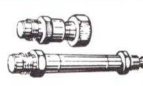

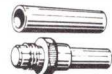






VOLTAGE REGULATOR TOOLS

	J 7099	25 Ohm, 25 Watt Variable Resistor	ALL—Delco Dual Point Regulator		J 22087	1/4 Ohm Resistor	ALL
	J 7590	Voltage Regulator Gauge Set	ALL		J 22973	Thermometer Voltage Regulator & Ther-Mac (60° F-160° F)	ALL
	J 21600	Wiring Harness Test Adapter	ALL—Transistorized Regulators				


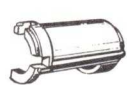

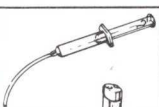







CARBURETOR & GENERAL FUEL TOOLS

	J 1137	Bending Tool (Choke Rod)	AMER. MTRS.—Carter		J 7090-01	Fuel Injection Calibrating Gauge	ALL—Fuel Injection
	J 4552	Bending Tool (Choke Rod)	BUICK, OLDS.—All with Rochester except Quadrajet		J 8124-01	Blow Gun for Port Cleaning	ALL
	J 5197	Bending Tool (Unloader)	GM—Rochester Quadrajet		J 8328	Carburetor Holding Tool (Set of 4)	ALL






GENERAL CARBURETOR & GENERAL FUEL TOOLS—(Continued)

	J 8381	Gas-Per-Mile Gauge	ALL CARS		J 10205-03	Carburetor Tool Kit	HOLLEY
	J 8950-01	Fuel Tank Sending Unit Spanner	CHEVELLE— 1965-68 CHEV.—1965-66 CORVAIR—1960-69		J 10206	Governor Assembly and Adjusting Set	HOLLEY
	J 9709	Gas-Per-Mile Gauge	VOLKSWAGEN		J 10234	Power Valve & Spark Valve Socket	ALL HOLLEY Models except 847, 1920, 1931, 1970, 852 G, 885 & G, 2209, 2300 & G
	J 9789-01	Universal Carburetor Gauge Set (32 Wire Gauges .015-.260, 8 Plug Gauges .275-500, Adjustment Sliding Float Drop Gauge)	ALL		J 10235	Vacuum Piston Puller	HOLLEY Models 847, 852 G, 885 & G, 2209
					J 10236-01	Vacuum Piston Installer	HOLLEY Models 847, 852 G, 885 & G, 2209
	J 10174-01	Main Metering Jet Wrench	ALL—Holley		J 10237-02	Vacuum Piston Staking Tool	HOLLEY Models 847, 852 G, 885 & G, 2209
	J 10176	Fast Idle Wrench	CHEV.—1968 HOLLEY Models 2300-4150 G		J 21685	Carburetor Chain Gauge	OPEL KADETT—1963-67
	J 10182	Vacuum Piston Socket	CHEV.—1968 HOLLEY Models 852-885JJ		J 22109	Carburetor Needle and Seat Tester	BUICK—1966-71 Quadrajet
	J 10183	Fuel Inlet Seat Socket	HOLLEY Models 885-1901-2140-4000 (Center Inlet Model 4150 & 4160)		J 22243	Gas-Per-Mile Gauge	ALL CARS
	J 10185	Power Valve Socket	HOLLEY Models 847, 1904 & G, 1908, 1909, 1960, 852 G, 885 & G, 1901 & G		J 22243-80	3/8" Tube (Inverted Flare) Fittings Special Adapter Kit	PONTIAC
	J 10186	Inlet Valve Plug Socket	HOLLEY Models 885 & G, 1901 & G, 2140 & G, 2140 SG, 4000 & G		J 22243-85	1/4" Tube (Inverted Flare) Fittings	UNIVERSAL
	J 10187	Governor Diaphragm Gauge	HOLLEY—All Centri Vac Governors		J 22243-90	3/8" Hose—Special Adapter Kit	BUICK—TEMPEST
	J 10195	Staking Tool Set	HOLLEY Models 2140 & 4000		J 22243-95	1/4" Tube (Inverted Flare Fittings) Special Adapter Kit	CORVAIR
	J 10198	Hook Ring	HOLLEY		J 22514	Bending Tool	EARLY MODEL—Rochester Quadrajets
	J 10200-03	Carburetor Tool Kit	HOLLEY		J 22554	Fuel Tank Sending Unit Remover & Installer	OLDS., PONT., BUICK, CHEV.—1967-71





GENERAL CARBURETOR & GENERAL FUEL TOOLS—(Continued)

	J 22646	Remote Control Carburetor Adjusting Wrench	ALL CADILLAC—thru 1971		J 23346	Fuel Tank Sending Unit Spanner	CAMARO, FIRE-BIRD, CHEVY II, CHEVELLE—1965-69 CHEV.—1965-69 BUICK—1964-69 CAD.—1967-69 OLDS.—1964-69 PONT.—1964-69
	J 22769	Needle Valve Seat Remover & Installer	ALL GM—Quadrajets		J 23418	Carburetor Vacuum Break Actuator	BUICK—Rochester Carb.
	J 22967-01	Remote Control Carburetor Adjusting Wrench (Includes 1/8" Key Bit, Screw Driver Bit)	ALL GM—For Air Cleaner "on" Adjustment (except Cadillac)		J 23433	Multiple Carburetor Synchronizer	ALL—Dual Carb. Systems
	J 22973	Ther-Mac Thermometer (60° F-160° F)	ALL GM—1968-71		J 23443	Fuel Inlet Nut Wrench	ALL GM—Quadrajets
	J 23180	Gas Tank Ring Expander	CHEV.—1969-70 "B" Cars		J 23738	Hand Operated Vacuum Device	ALL
	J 23309	Vacuum System Tester	CHEV.—1970				


ENGINE OIL FILTER AND SIGNAL SWITCH TOOLS

	J 9614-01	Oil Filter Remover (2"-4 1/8")	AMER. MTRS.		J 22700	Oil Filter Wrench	ALL—Disposable Filters
	J 21757-01	Oil Signal Switch Wrench	CAD.—1971 CORVAIR—All PONTIAC—All		J 22775	Oil Filter Wrench	BUICK, CAD., CHEV., PONTIAC, OLDS.—1968-71
	J 22385	Oil Pressure Sending Unit Socket (Stoplight Sending Unit Socket)	AMER. MTRS.—1966-67				



PISTON TOOLS

	J 1218	Piston Vise	ALL		J 5513	30 lb. Piston Fitting Feeler and Scale (.0015 Feeler Size)	ALL
	J 3936-03	Piston Ring Groove Cleaner	ALL		J 5515	20 lb. Piston Fitting Feeler & Scale (.0015 Feeler Size)	PONTIAC


PISTON RING COMPRESSORS

	Tool No.	J 4460	J 5569	J 5584	J 5601	J 5684	J 6647	J 8054	J 8910	J 9370-01	J 21006
	Size	3 9/16"	4"	3 5/8"	3 3/4"	4 1/8"	3 7/8"	3 1/16"	3 1/2"	4 1/4"	4 1/16"
	Tool No.	J 21158	Solid J 22095	J 22562	J 22666	Solid J 22748	J 22965	J 22966	J 23197	J 23503	
	Size	4 5/16"	4.129"	3 23/32"	4.08"	4.300"	3.800	4.040	4.165"	4.151	





GENERAL PISTON RING COMPRESSORS—(Adjustable Type)

	J 8037	Piston Ring Compressor	ALL		J 8356	Piston Ring Compressor	CORVAIR
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PISTON RING REMOVERS AND INSTALLERS

	Tool No.	J 7135	J 8014	J 8018	J 8020	J 8021	J 8027	J 8032
	Size	4 $\frac{1}{16}$ "	3 $\frac{3}{8}$ "	3 $\frac{5}{16}$ "	3 $\frac{7}{16}$ "	3 $\frac{7}{8}$ "	3 $\frac{5}{8}$ "	4"
	Tool No.	J 22147	J 22249	J 22250	J 22563	J 22902	J 22903	J 23196
	Size	4 $\frac{3}{32}$ "	3 $\frac{15}{16}$ "	4 $\frac{1}{4}$ "	3 $\frac{23}{32}$ "	4 $\frac{1}{8}$ "	4 $\frac{1}{16}$ "	4.165"


VALVE TOOLS

	J 8056	Valve & Clutch Spring Tester	ALL		J 8101	Valve Guide Cleaner	ALL
	J 8062	Valve Spring Compressor	ALL		J 22738-01	Valve & Clutch Spring Tester	ALL CARS


VALVE GUIDE REMOVERS—(Pilot Diameters Represent Approx. Valve Guide I. D. Size)

		PILOT DIAMETER	APPLICATION		PILOT DIAMETER	APPLICATION
	J 267	2 $\frac{1}{64}$	Buick, Olds, Tempest, Pontiac	J 3062	1 $\frac{1}{32}$	Cadillac, Olds
	J 269	$\frac{3}{8}$	Buick	J 5600	$\frac{7}{16}$	Chevrolet
	J 1429-01	2 $\frac{1}{64}$	American Motors	J 21280	1 $\frac{1}{32}$	Corvair




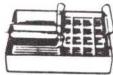


VALVE GUIDE INSTALLERS—(Pilot Diameters Represent Approx. Valve Guide I. D. Size)

		PILOT DIAMETER	APPLICATION		PILOT DIAMETER	APPLICATION
	J 1429-01	2 $\frac{1}{64}$	American Motors	J 21281	1 $\frac{1}{32}$	Corvair
	J 5240	2 $\frac{3}{64}$	Buick	J 21753	$\frac{3}{8}$	American Motors
	J 5598	$\frac{5}{16}$	Chevrolet (Intake)	J 21754	1 $\frac{1}{32}$	American Motors
	J 5599	$\frac{5}{16}$	Chevrolet (Exhaust)	J 22315	1 $\frac{1}{32}$	Cadillac
	J 8813	2 $\frac{3}{64}$	Buick			

GENERAL VALVE GUIDE REAMERS*

		NOM- INAL SIZE	OVER- SIZE	APPLICATION		NOM- INAL SIZE	OVER- SIZE	APPLICATION
	J 129-2	11/32	STD	All Cars	J 7049-5	3/8	.015	Chevrolet
	J 3060	11/32	STD	All Cars	J 7049-6	3/8	.030	Chevrolet
	J 4822	11/32	STD	Chevrolet	J 7049-7	3/8	STD	Chevrolet
	J 5830-1	11/32	.003	Chevrolet, Amer. Motors, Pont., Buick, Olds, Cad.	J 7049-8	7/16	STD	Chevrolet
	J 5830-2	11/32	.015	Pont., Chevrolet, Amer. Motors, Buick, Olds	J 8003	3/8	STD	Buick
	J 5830-3	11/32	.030	Chevrolet, American Motors, Olds., Buick	J 8814	11/32	STD	Buick, Temp.
	J 5830-4	11/32	.010	Buick, Chevrolet	J 9345-1	3/8	.010	Buick
	J 5830-5	11/32	.020	Chevrolet Corvair	J 21282	33/64	.010	Corvair
	J 5830-6	11/32	.006	Cadillac	J 21283	33/64	.020	Corvair
	J 5830-7	11/32	.013	Cadillac	J 21318	11/32	STD	Corvair
	J 6042-1	3/8	.003	American Motors	J 21702	7mm	.003	Opel Kadett
	J 6042-4	3/8	.030	American Motors	J 21703	7mm	.006	Opel Kadett
	J 6042-5	3/8	.015	American Motors	J 21704	7mm	.010	Opel Kadett
	J 6621	11/32	.005	Pontiac	J 22612	3/8	.006	Buick
	J 7049-1	7/16	.003	Chevrolet	J 22917-1	9mm	.004	Opel Kadett
	J 7049-2	7/16	.015	Chevrolet	J 22917-2	9mm	.006	Opel Kadett
	J 7049-3	7/16	.030	Chevrolet	J 22917-3	9mm	.0118	Opel Kadett
	J 7049-4	3/8	.003	Chevrolet				
















VALVE LIFTER TOOLS & EQUIPMENT

	J 3049	Hydraulic Valve Lifter Remover	ALL		J 5790	Hydraulic Valve Lifter Leakdown Tester (Includes one gallon J 5268 Test Oil)	ALL
	J 4160	Hydraulic Valve Lifter Plunger Remover	ALL		J 5821	Valve Lifter Cleaning Tank	ALL
	J 5268	One Gallon of Hydraulic Valve Lifter Tester Oil (Use with J 5790)	ALL		J 8130	Five Gallons of Hydraulic Valve Lifter Leakdown Test Oil (Use with J 5790)	ALL








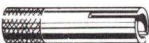

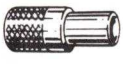


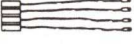


*J 5830-02 — Valve Guide Reamer Set — Consists of J 5830-1-2-3-4-5

*J 7049 — Valve Guide Reamer Set — Consists of J 7049-1-2-3-4-5-6-7-8














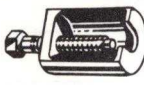

SPECIAL TOOLS AMERICAN MOTORS

			Alum. 6 196	Over Head 6 196	L Head 6 196	6 199	6 232	V-8 250	V-8 287	V-8 290	V-8 304	V-8 327	V-8 343	V-8 360	V-8 390
	J 1137	Fast Idle & Unloader Bender	CARTER WCD												
	J 1388	Carburetor Fast Idle Gauge	CARTER WCD												
	J 1429-01	Valve Guide Remover & Installer—1955-66		X	X			X	X			X	X		X
	J 5569	Piston Ring Compressor (4")										X			
	J 5601	Piston Ring Compressor (3.75")				X	X			X	X				
	J 5640	Wire Gauge	CARTER WCD												
	J 5661-01	Pump Discharge Needle Seat Remover	CARTER RBS												
	J 5790	Hydraulic Valve Lifter Leakdown Tester (Includes One Gallon J 5268 Test Oil)	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5830-1	Valve Guide Reamer—.003" O.S.—1961-64	X												
	J 5830-2	Valve Guide Reamer—.015" O.S.—1961-64	X												
	J 5830-3	Valve Guide Reamer—.030" O.S.—1961-64	X												
	J 5959-4	"C" Clamp w/3/8 Dia. x 8" Extension Rod	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 6042-1	Valve Guide Reamer (.003" O.S.)				X	X				X			X	
	J 6042-4	Valve Guide Reamer (.030" O.S.)				X	X				X			X	
	J 6042-5	Valve Guide Reamer (.015" O.S.)				X	X				X			X	




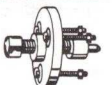
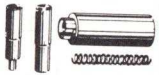




SPECIAL TOOLS AMERICAN MOTORS—(Continued)

			Alum. 6 196	Over Head 6 196	L Head 6 196	6 199	6 232	V-8 250	V-8 287	V-8 290	V-8 304	V-8 327	V-8 343	V-8 360	V-8 390
	J 7135	Piston Ring Rem. & Installer (4 $\frac{1}{16}$ ")											X	X	
	J 8032	Piston Ring Rem. & Installer (4")				X	X			X	X				
	J 8056	Valve & Clutch Spring Tester	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8520	Cam Lobe Lift Indicator	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 9163	Front Cover Crankshaft Seal Installer							X			X			
	J 9233	Front Cover Crankshaft Seal Remover & Pinion Oil Seal Remover						X	X	X		X	X		X
	J 9256	Front Cover Crankshaft Seal Remover	X	X	X	X	X								
	J 9600-2	Diode Installer-Alternator	← DELCOTRON →												
	J 9614-01	Oil Filter Remover				X	X		X			X			
	J 9717-1	Diode Remover	← DELCOTRON →												
	J 9717-2	Diode Support	← DELCOTRON →												
	J 9782-1	Jumper Lead	← DELCOTRON →												
	J 9782-3	Adapter (4-Wire Lead)	← DELCOTRON →												
	J 9789-01	Carburetor Gauge Set	← ALL CARBURETORS →												
	J 10174-01	Carburetor Main Jet Remover	← ALL HOLLEY & AMER. MTRS. 2100 & 6200 →												









SPECIAL TOOLS AMERICAN MOTORS—(Continued)

			Alum. 6 196	Over Head 6 196	L Head 6 196	6 199	6 232	V-8 250	V-8 287	V-8 290	V-8 304	V-8 327	V-8 343	V-8 360	V-8 390
	J 10184	Needle Seat Remover & Installer	← CARTER WCD & AMER. MTRS. 2100 & 6200 →												
	J 10185	Power Valve Socket (Small)	← CARTER WCD & AMER. MTRS. 2100 & 6200 →												
	J 10234	Carburetor Power Valve Socket	← 2300-4160-4150 HOLLEY →												
	J 10235	Power Valve Piston Remover	← 1909 & 2209 HOLLEY →												
	J 10236-01	Vacuum Piston Installer	← 1909 & 2209 HOLLEY →												
	J 10237-02	Vacuum Piston Staking Tool	← 1909 & 2209 HOLLEY →												
	J 10240	Needle Remover & Staking Tool	← 1909 HOLLEY →												
	J 21008	Diode Continuity Test Light	← ALL ALTERNATORS →												
	J 21040	1/2" Float Level Gauge	← CARTER WCD EXCEPT 1966 →												
	J 21047	Cylinder Head Torque Wrench Adapter	X		X										
	J 21053	Alternator Output Test Adapter	← ALL ALTERNATORS →												
	J 21073	Valve Keeper Tool			X										
	J 21154	Bearing Installer	← MOTOROLA ALTERNATOR →												
	J 21155	Bearing Remover	← MOTOROLA ALTERNATOR →												
	J 21156	Front Housing To Rotor Installer	← MOTOROLA ALTERNATOR →												

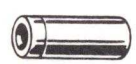

SPECIAL TOOLS AMERICAN MOTORS—(Continued)

			Alum. 6 196	Over Head 6 196	L Head 6 196	6 199	6 232	V-8 250	V-8 287	V-8 290	V-8 304	V-8 327	V-8 343	V-8 360	V-8 390
	J 21157	Snap Ring Pliers	MOTOROLA ALTERNATOR												
	J 21202	Pump Installer & Step-Up Rod Retainer Installer	CARTER RBS												
	J 21309	Rear Main Bearing Oil Seal Installer	X	X	X	ALL 1956									
	J 21315	Rear Main Bearing Oil Seal Installer							X			X			
	J 21753	Valve Guide Installer							X			X			
	J 21754	Valve Guide Installer		X	X										
	J 21791	Vibration Damper Remover	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 21872	Piston Pin Remover & Installer	X	X	X	X	X		X	X		X	X		
	J 21881	Cylinder Head Bolt Wrench		X											
	J 21882	Oil Inlet Tube Installer				X	X								
	J 21884	Hydraulic Tappet Remover				X	X								
	J 21931-01	Valve Spring Compressor				X	X								
	J 22248	Timing Case Cover Alignment Tool & Seal Installer				X	X								
	J 22516	Starter Pole Screw Wrench—1968-70								X			X		
	J 22533	Timing Chain Cover Seal Installer								X	X		X	X	X


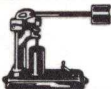
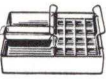












SPECIAL TOOLS AMERICAN MOTORS—(Continued)

			Alum. 6 196	Over Head 6 196	L Head 6 196	6 199	6 232	V-8 250	V-8 287	V-8 290	V-8 304	V-8 327	V-8 343	V-8 360	V-8 390
	J 22534	Valve Spring Compressor								X	X		X	X	X
	J 22666	Piston Ring Compressor (4.08")											X	X	
	J 22700	Oil Filter Wrench	X	X	X	X		X		X	X		X	X	X
	J 22967-01	Carburetor and Dist. Adj. Tool	X	X	X	X	X	X	X	X		X	X		X
	J 23111	PCV Valve Tester	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 23194	Piston Pin Remover & Installer													X
	J 23196	Piston Ring Remover & Installer (4.165")													X
	J 23197	Piston Ring Compressor (4.165")													X

SPECIAL TOOLS BUICK

			L-6 250	V-6 198	V-6 225	V-8 215	V-8 300	V-8 340	V-8 350	V-8 364	V-8 400	V-8 401	V-8 425	V-8 430	V-8 455
	J 129-2	Valve Guide Reamer— $1\frac{1}{32}$ "	X	X	X	X	X	X		X		X	X		
	J 267	Valve Guide Reamer				X									
	J 269	Valve Guide Installer								X		X	X		
	J 1218	Piston Vise	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 3049	Valve Lifter Remover	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 3455	Cylinder Head Guide Stud Set								X		X			
	J 4160	Hydraulic Valve Lifter Plunger Remover	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5154	Timing Cover Oil Seal Installer	X												
	J 5184	Generator Brush Tension Scale	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5239	Connecting Rod Bolt Guide Set	X						X	X	X	X	X	X	X
	J 5240	Valve Guide Installer								X	X	X	X		
	J 5268	Hydraulic Valve Lifter Test Fluid (Use w/J 5790) 1 Gallon	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5584	Piston Ring Compressor $3\frac{5}{8}$ "		X											
	J 5601	Piston Ring Compressor $3\frac{3}{4}$ "			X		X	X							
	J 5684	Piston Ring Compressor $4\frac{1}{8}$ "									X				
	J 5715	Rocker Arm Stud Reamer (.003" O.S.)	X												

SPECIAL TOOLS BUICK—(Continued)

			L-6 250	V-6 198	V-6 225	V-8 215	V-8 300	V-8 340	V-8 350	V-8 364	V-8 400	V-8 401	V-8 425	V-8 430	V-8 455
	J 5727-01	Distributor Wrench	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5790	Hydraulic Valve Lifter Leakdown Tester (Includes One Gallon J 5268 Test Oil)	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5821	Valve Lifter Cleaning Tank	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5830-1	Valve Guide Reamer (.003 O.S.)	X		X		X	X							
	J 5830-2	Valve Guide Reamer (.015" O.S.)	X												
	J 5830-3	Valve Guide Reamer (.030" O.S.)	X												
	J 5830-4	Valve Guide Reamer (.010 O.S.)	X		X		X	X							
	J 6036	Rocker Arm Stud Reamer (.013" O.S.)	X												
	J 6047-03	Piston Pin Installer Tool Set		X	X		X	X	X	X	X	X	X	X	X
	J 6647	Piston Ring Compressor (3 7/8")	X												
	J 6880	Rocker Arm Stud Installer	X												
	J 6978-04	Vibration Damper and Crankshaft Gear Remover	X												
	J 8003	Valve Guide Reamer .375							X	X	X	X	X	X	
	J 8037	Piston Ring Compressor (Adjustable)	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8062	Valve Spring Compressor	X	X	X	X	X	X	X	X	X	X	X	X	X














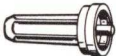

SPECIAL TOOLS BUICK—(Continued)

			L-6 250	V-6 198	V-6 225	V-8 215	V-8 300	V-8 340	V-8 350	V-8 364	V-8 400	V-8 401	V-8 425	V-8 430	V-8 455
	J 8080	Main Bearing Shell Remover		X	X	X	X	X		X	X	X	X	X	X
	J 8089	Carbon Removing Brush	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8358	Carbon Removing Brush (Aluminum)		X											
	J 8813	Valve Guide Installer	X	X	X	X	X	X							
	J 8814	Valve Guide Reamer 11/32"	X	X	X	X	X	X							
	J 8822	Connecting Rod Bolt Guide Set		X	X	X	X	X	X						
	J 8859	Piston Pin Installer		X		X									
	J 8910	Piston Ring Compressor 3 1/2"				X									
	J 9345-1	Valve Guide Reamer .010 O.S.							X		X			X	
	J 9510-1	Support (Piston Pin)	X												
	J 9510-2	Pilot (Piston Pin)	X												
	J 9510-3	Remover and Installer (Piston Pin)	X												
	J 9534-01	Distributor Shaft Pilot Bearing Remover (Use with J 7004-1)	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 21006	Piston Ring Compressor (4 3/16")										X		X	
	J 21158	Piston Ring Compressor (4 5/8")													X











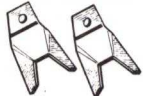


SPECIAL TOOLS BUICK—(Continued)

			L-6 250	V-6 198	V-6 225	V-8 215	V-8 300	V-8 340	V-8 350	V-8 364	V-8 400	V-8 401	V-8 425	V-8 430	V-8 455
	J 21426	Rear Oil Seal Installer	X				X		X		X	X	X	X	
	J 21742	Timing Cover Alignment Gauge (Early 1968)	X												
	J 22197-6	Vibration Damper Installer (Cap Screws—2 required)	X												
	J 22197-7	Vibration Damper Installer (Body)	X												
	J 22197-11	Vibration Damper Installer Fingers (2 required)	X												
	J 22197-13	Vibration Damper Installer Hardware Kit	X												
	J 22549-2	Vibration Damper Driver (Use with J 22197-6, -7, -11, -13)	X												
	J 22612	Valve Guide Reamer (.006" O.S.)							X		X			X	
	J 22694	Spark Plug Socket (5/8" Hex)									X			X	X
	J 22775	Oil Filter Wrench	← THROW-AWAY FILTER →												
	J 22891	Valve Spring Compressor	X												
	J 22902	Piston Ring Remover & Installer								X					
	J 22965	Piston Ring Compressor (3 51/64")							X						
	J 22966	Piston Ring Compressor (4 3/64")									X				
	J 23042	Timing Cover Aligning Arbor (Late 1968-70)	X												

SPECIAL TOOLS OPEL KADETT

			1.1 Liter Engine	1.5 Liter Engine	1.9 Liter Engine
	J 1218	Piston Vise	X	X	X
	J 3936-03	Piston Ring Groove Cleaner	X	X	X
	J 5902-01	Cylinder Hone 2½" to 5¾"	X	X	X
	J 8037	Piston Ring Compressor (Oil Filter Remover)	X	X	X
	J 8056	Valve & Clutch Spring Tester	X	X	X
	J 8062	Valve Spring Compressor	X	X	X
	J 8080	Main Bearing Shell Remover		X	X
	J 8087	Cylinder Bore Checking Gauge	X	X	X
	J 8089	Carbon Removing Brush	X	X	X
	J 21702	Valve Guide Reamer (.003" O.S.)	X		
	J 21703	Valve Guide Reamer (.006" O.S.)	X		
	J 21704	Valve Guide Reamer (.010" O.S.)	X		
	J 21706	Clutch Pilot Bearing Installer	X		
	J 21707	Crankshaft Oil Seal Installer	X		
	J 21718	Clutch Pilot Bearing Remover (Use with J 7004-1)	X		











SPECIAL TOOLS OPEL KADETT—(Continued)

			1.1 Liter Engine	1.5 Liter Engine	1.9 Liter Engine
	J 21738	Engine Drain Plug Wrench (12mm Hex Key)	X		
	J 22915-01	Cylinder Head Bolt Serrated Wrench 12mm 1/2" Drive		X	X
	J 22917-1	Valve Guide Reamer (.004" O.S.)		X	X
	J 22917-2	Valve Guide Reamer (.006" O.S.)		X	X
	J 22917-3	Valve Guide Reamer (.0118" O.S.)		X	X
	J 22924	Timing Cover Seal Installer		X	X
	J 22928	Rear Main Seal Installer and Protector		X	X
	J 22933	Timing Chain Oil Deflector		X	X
	J 23016-01	Serrated Wrench 8mm 3/8" Drive	X	X	X
	J 23017-01	Serrated Wrench 10mm 1/2" Drive (Head Bolts)	X		
	J 23098	Engine Holding Fixtures (Kadett Models)		X	X
	J 23375	Engine Holding Fixture (Opel GT)			X
	J 23436	Piston Pin Remover & Installer Set	X	X	X







SPECIAL TOOLS CADILLAC

			V-8 365	V-8 390	V-8 429	V-8 472	V-8 500
	J 3049	Valve Lifter Remover	X	X	X	X	X
	J 3062	Valve Stem Guide Remover	X	X	X		
	J 3211	Water Pump Impeller Remover	X	X			
	J 3224	Connecting Rod Bolt Guide Set	X	X	X	X	X
	J 4160	Hydraulic Valve Lifter Plunger Remover	X	X	X	X	X
	J 5569	Piston Ring Compressor (4")	X	X			
	J 5830-1	Valve Guide Reamer (.003 O.S.)				X	
	J 5830-6	Valve Guide Reamer (.006 O.S.)				X	
	J 5830-7	Valve Guide Reamer (.013 O.S.)				X	
	J 5892-1	Valve Spring Compressor	X	X	X		
	J 6535	Valve Guide Installer Spacer Block (Use with J 22315)	X	X	X		
	J 6855	Water Pump Shaft Support Fixture	X	X			
	J 8062	Valve Spring Compressor	X	X	X	X	X
	J 8080	Rear Main Bearing Shell Remover		X	X	X	X
	J 8390-04	Piston Pin Remover & Installer		X	X	X	X








SPECIAL TOOLS CADILLAC—(Continued)

			V-8 365	V-8 390	V-8 429	V-8 472	V-8 500
	J 9388	14mm Spark Plug Adapter (Valve Holding)	X	X	X		
	J 9718	Water Pump Hub & Bearing Installer & Spacer	X	X			
	J 9789-01	Universal Carburetor Gauge Set (32 Wire Gauges Between .015 & .260. Plug Gauges .275-.500 Adjustment Sliding Drop Float Gauge)	X	X	X	X	X
	J 21052-01	Harmonic Balancer Remover & Installer		X	X	X	X
	J 21054	Camshaft Bushing Remover & Installer		X	X	X	X
	J 21150-01	Timing Gear Cover Oil Seal Installer & Support		X	X		
	J 21757-01	Oil Signal Switch Wrench					X
	J 22095	Piston Ring Compressor 4.129"			X		
	J 22315	Valve Guide Installer (See J 6535)	X	X	X		
	J 22646	Carburetor Adjusting Tool	X	X	X	X	X
	J 22748	Piston Ring Compressor 4.300" (Solid)				X	X
	J 22765	Valve Spring Compressor				X	X
	J 22769	Float Needle Seat Remover and Installer				X	X
	J 22770	Front Cover Oil Seal Installer				X	X
	J 22775	Oil Filter Wrench			X	X	X














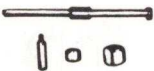

SPECIAL TOOLS CADILLAC—(Continued)

			V-8 365	V-8 390	V-8 429	V-8 472	V-8 500
	J 22794	Spark Plug Port Adapter				X	X
	J 22825	Engine Support Fixture			X	X	X
	J 22902	Piston Ring Remover and Installer 4 1/8"			X		
	J 22903	Piston Ring Remover and Installer 4 5/8"				X	
	J 22908	Block Reconditioning Tap 1 1/2-16 Thread		X	X		
	J 23675	Water Pump Service Set				X	X

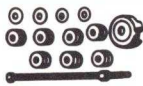














CHEVROLET

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 358-1	Press Plate Holder	X									
	J 971	Camshaft Gear Remover	X	X				X				X
	J 1619	Crankshaft Sprocket & Propeller Shaft Bearing Puller				X						
	J 4628	Flywheel Housing Dowel Pin Remover						X				
	J 4656	Flywheel Housing Alignment Checking Fixture						X				
	J 4822	Valve Guide Reamer .343"		X				X				X
	J 5239	Connecting Rod Bolt Guide Set		X	X	X		X	X	X	X	

SPECIAL TOOLS CHEVROLET—(Continued)

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 5513	30 Lb. Piston Fitting Scale & Feeler (.0015 Size)	X	X	X	X		X	X	X	X	X
	J 5538-02	Piston Pin Assembly Tool							X			
	J 5590	Crankshaft Gear Installer	X	X	X			X	X	X	X	X
	J 5598	Valve Guide Installer (Intake)						X				
	J 5599	Valve Guide Installer (Exhaust)						X				
	J 5600	Valve Guide Remover						X				
	J 5715	Rocker Arm Stud Reamer (.003 O.S.)		X	X				X	X	X	X
	J 5801	Rocker Arm Stud Installer							X			
	J 5802-01	Rocker Arm Stud Remover		X	X				X	X	X	X
	J 5825	Crankshaft Gear Puller		X					X	X	X	X
	J 5830-02	Valve Guide Reamer Set See page 14	X	X	X				X	X	X	X
	J 5892-1	Valve Spring Compressor		X	X	X		X	X	X	X	X
	J 6036	Rocker Arm Stud Hole Reamer .382"		X	X				X	X	X	X
	J 6098-01	Camshaft Bearing Remover & Installer		X	X	X			X	X	X	X
	J 6305-01	Connecting Rod Bolt Set	X	X								X
















SPECIAL TOOLS CHEVROLET—(Continued)

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 6356	Camshaft Bearing Remover & Installer						X				
	J 6392	Rocker Arm Stud Remover							X			
	J 6880	Rocker Arm Stud Installer		X	X				X	X	X	X
	J 6994-03	Piston Pin Remover & Installer	X			X						
	J 7028	Rear Pinion Bearing Remover (Use with J 358-1)	X									
	J 7049	Valve Guide Reamer Set See page 14				X					X	
	J 7811	Valve Spring Compressor			X				X	X		
	J 7825	Air Cleaner Filter Checking Gauge	← ALL ENGINES WITH PAPER AIR FILTERS →									
	J 8004-01	Cylinder Head Bolt Wrench 3/4" Double Hex—1/2" Drive						X				
	J 8020	Piston Ring Remover & Installer 3 9/16										X
	J 8021	Piston Ring Remover & Installer 3 7/8		X	283 307							
	J 8032	Piston Ring Remover & Installer 4			302 327							
	J 8037	Piston Ring Compressor (Adjustable)	X	X	X	X		X	X	X	X	X
	J 8056	Valve & Clutch Spring Tester	X	X	X	X	X	X	X	X	X	X
	J 8062	Valve Spring Compressor	X	X	X	X	X	X	X	X	X	X





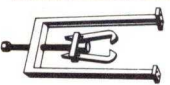




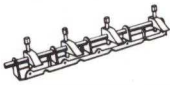


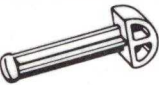


SPECIAL TOOLS CHEVROLET—(Continued)

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 8087	Cylinder Bore Checking Gauge	X	X	X	X	X	X	X	X	X	X
	J 8089	Carbon Removing Brush	ALL CAST IRON									
	J 8101	Valve Guide Cleaning Tool	X	X	X	X		X	X	X	X	X
	J 8105	Crankshaft Gear Puller	X	X				X				
	J 8354	Stud Installer Set	X									
	J 8355-01	Piston Pin Remover & Installer Pilot	X									
	J 8356	Piston Ring Compressor (Adjustable)	X									
	J 8358	Carbon Removing Brush (Aluminum Head)	X									
	J 8369	Oil Suction Pipe Installer	X	X	X			X	X	X	X	X
	J 8520	Cam Lobe Lift Indicator	X	X	X	X		X	X	X	X	X
	J 8910	Piston Ring Compressor (3 1/2")					X					
	J 9370-01	Piston Ring Installer (4 1/4")				X						
	J 9510-03	Piston Pin Remover & Installer Set		X	X				X	X	X	X
	J 9534-01	Distributor Shaft Pilot Bearing Remover (Use with 5/16" — 18 Thread Slide Hammer)		X								X
	J 9535	Distributor Shaft Pilot Bearing Inst. & Rem.		X								X

SPECIAL TOOLS CHEVROLET—(Continued)

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 21280	Valve Guide Remover	164									
	J 21281	Valve Guide Installer See page 13	164									
	J 21282	Valve Guide Reamer See page 14	164									
	J 21283	Valve Guide Reamer See page 14	164									
	J 21308	Cylinder Head Fin Cleaning Tool	X									
	J 21318	Valve Guide Reamer ($1\frac{1}{32}$ ")	164									
	J 21505	Water Pump Hub Locating Gauge		X	X							
	J 21742	Timing Cover Alignment Gauge & Seal Installer		X								X
	J 21757-01	Oil Signal Switch Wrench	X	X	X	X	X	X	X	X	X	X
	J 21768	Flywheel Housing Seal Installer	X									
	J 22102	Crankcase Front Seal Inst. & Cover Aligner				X						
	J 22144	Oil Inlet Tube Installer				X						
	J 22162	Universal Fan Hub Locating Gauge	X	X	X	X		X	X	X	X	X
	J 22197	Universal Vibration Damper Holder	X	X	X	X	X	X	X	X	X	X
	J 22249	Piston Ring Remover & Installer ($3\frac{15}{16}$ ")	X	X	X	X	X	X	X	X	X	X

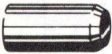




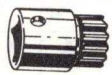
SPECIAL TOOLS CHEVROLET—(Continued)

			Cor- vair	In- Line 6	Small V-8	Mark V-8	Vega 2300	235	265	348	409	194
	J 22250	Piston Ring Remover & Installer (4 1/4")				X						
	J 22382	Hood Holders	X	X	X	X		X	X	X	X	X
	J 22395	Corvair Head Resurfacers	X									
	J 22775	Oil Filter Wrench	X	X	X	X		X	X	X	X	X
	J 22894	Blower Bearing Remover	X									
	J 23042	Timing Cover Seal Aligner & Installer		X	X				X	X		X
	J 23523	Harmonic Balance Remover & Installer			X	X			X	X	X	
	J 23587	Lifter Adjusting Wrench					X					
	J 23590	Air Line Adapter (Valve Spring Compressor)					X					
	J 23591	Camshaft Remover & Installer					X					
	J 23592	Valve Spring Compressor					X					
	J 23624	Oil Pump Seal Installer					X					
	J 23625	Rear Main Oil Seal Installer					X					
	J 23627	Connecting Rod Inserter					X					
	J 23638	Camshaft Bearing Remover & Installer					X					
	J 23654	Timing Belt Tensioning Adapter					X					




SPECIAL TOOLS OLDSMOBILE

			6 250	V-6 225	V-8 215	V-8 330	V-8 350	V-8 371	V-8 394	V-8 400	V-8 425	V-8 455
	J 267	Valve Guide Remover		X	X			X	X			
	J 3049	Valve Lifter Remover	X	X	X	X	X	X	X	X	X	X
	J 3062	Valve Guide Remover						X				
	J 5154	Extension Housing Oil Seal Installer	X	X	X	X	X	X	X	X	X	X
	J 5158-02	Valve Guide Remover & Installer Set						X	X			
	J 5239	Connecting Rod Bolt Guide Set						X	X			
	J 5515	Piston Feeler (.0015") & 20# Fitting Scale	X		X	X	X	X	X	X	X	X
	J 5715	Rocker Arm Stud Reamer .003 O.S.	X									
	J 5830-1	Valve Guide Reamer .003 O.S.	X	X	X	X	X	X	X	X	X	X
	J 5830-2	Valve Guide Reamer .015 O.S.	X	X	X	X	X	X	X	X	X	X
	J 5830-3	Valve Guide Reamer .030 O.S.	X	X	X	X	X	X	X	X	X	X
	J 5892-1	Valve Spring Compressor	X	X	X	X	X	X	X	X	X	X
	J 6036	Rocker Arm Stud Reamer .013 O.S.			X							
	J 6305-01	Connecting Rod Guide Set	X	X	X	X	X	X	X	X	X	X
	J 6647	Piston Ring Compressor 3 7/8	X	X	X	X	X	X	X	X	X	X



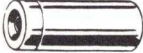







SPECIAL TOOLS OLDSMOBILE—(Continued)

			6 250	V-6 225	V-8 215	V-8 330	V-8 350	V-8 371	V-8 394	V-8 400	V-8 425	V-8 455
	J 6880	Rocker Arm Stud Installer	X									
	J 7541	Valve Spring Compressor						X	X			
	J 7583	Front Cover Camshaft Seal Remover						X	X			
	J 7584	Front Cover Crankshaft Seal Installer						X	X			
	J 8021	Piston Ring Expander 3 7/8"	X	X	X	X	X	X	X	X	X	X
	J 8753	Timing Case Cover Oil Seal Installer			X							
	J 8754	Piston Pin Remover & Installer			X							
	J 8807	Crankshaft Oil Seal Installer			X							
	J 8810	Camshaft Gear Remover	X	X	X	X	X	X	X	X	X	X
	J 8822	Connecting Rod Bolt Guide Set (Pair)			X							
	J 8880	Valve Rocker Arm Stud Installer	X	X	X	X	X	X	X	X	X	X
	J 9534-01	Distributor Shaft Pilot Bearing Remover (Use with J 6125)				X						
	J 9535	Distributor Bushing Installer	X	X	X	X	X	X	X	X	X	X
	J 21174	Drain Plug Socket Wrench (1/2" Drive)							X	X	X	
	J 21662	Pan Removal Block Kit		X		X						

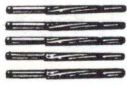








SPECIAL TOOLS OLDSMOBILE—(Continued)

			6 250	V-6 225	V-8 215	V-8 330	V-8 350	V-8 371	V-8 394	V-8 400	V-8 425	V-8 455
	J 21795-01	Camshaft Gear Installer	X	X	X	X	X	X	X	X	X	X
	J 22227	Camshaft Gear Removal Plate	X	X	X	X	X	X	X	X	X	X
	J 23042	Timing Cover Seal Installer & Aligner	X									















PONTIAC

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 267	Valve Guide Remover		X					X		X	X		X		
	J 3049	Valve Lifter Remover	X	X	X		X	X	X	X	X	X	X	X	X	X
	J 4160	Hydraulic Valve Lifter Plunger Remover	X	X			X	X	X	X	X	X	X	X	X	X
	J 5239	Connecting Rod Bolt Guide Set		X		X	X	X	X	X	X	X	X	X	X	X
	J 5515	Piston Feeler (.0015) and 20 Lb. Scale									X					
	J 5684	Piston Ring Compressor 4 1/8"											X		X	
	J 5710	Valve Train Gauge						X								
	J 5715	Rocker Arm Stud Reamer .003 O.S.									X					
	J 5751	Valve Stem Seal Installer & Tester		X					X		X	X	X	X	X	
	J 5790	Hydraulic Valve Lifter Leakdown Tester (Includes One Gallon J 5268 Test Oil)	X	X	X	X	X	X	X	X	X	X	X	X	X	X




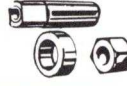











SPECIAL TOOLS PONTIAC—(Continued)

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 5821	Valve Lifter Cleaning Tank	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 5830-02	Valve Guide Reamer Set J 5830-1 .003" O.S., J 5830-4 .010" O.S. J 5830-2 .015" O.S., J 5830-5 .020" O.S. J 5830-3 .030" O.S.		X		X	X		X	X	X	X	X	X	X	X
	J 6036	Rocker Arm Stud Hole Reamer .013 O.S.	X		X											
	J 6173-01	Camshaft Bearing Remover & Installer		X					X	X	X	X	X	X	X	X
	J 6301	Rocker Arm Stud Installer									X					
	J 6305-01	Connecting Rod Guide Set	X													
	J 6324	Valve Train Gauge									X					
	J 6384	Valve Spring Compressor									X					
	J 6392	Rocker Arm Stud Remover									X					
	J 6471-4	Camshaft Remover (Use with 5/8" x 18 Slide Hammer)					X									
	J 6621	Valve Guide Reamer 11/32 .005 O.S.				X	X		X	X	X	X	X	X	X	X
	J 6647	Piston Ring Compressor 3 7/8"	X				X			X						
	J 6880	Rocker Arm Stud Installer	X		X											
	J 6901-03	Piston Pin Remover & Installer		X					X	X	X	X	X	X	X	X
	J 6978-04	Vibration Damper Remover	X	X												

SPECIAL TOOLS PONTIAC—(Continued)

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 7117	Piston Ring Remover & Installer 4 1/8"											X		X	
	J 7588	Rear Main Bearing Oil Seal Installer		X						X		X	X	X	X	X
	J 8021	Piston Ring Remover & Installer 3 7/8"	X				X			X						
	J 8037	Piston Ring Compressor (Adjustable)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8062	Valve Spring Compressor	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8080	Main Bearing Shell Remover	X						X		X	X	X	X	X	
	J 8101	Valve Guide Cleaning Tool	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 8358	Carbon Removing Brush (Aluminum Only)						X								
	J 8369	Oil Suction Pipe Installer			X											
	J 8753	Oil Deflector Seal Installer and Expander			X											
	J 8754	Piston Pin Remover & Installer						X								
	J 8807	Rear Crankshaft Seal Installer			X							X	X	X	X	
	J 8813	Valve Guide Installer			X											
	J 8814	Valve Guide Reamer 11/32"			X											
	J 8894	Camshaft Bore Plug Installer (Rear Pinion Bearing Installer)				X										




SPECIAL TOOLS PONTIAC—(Continued)

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 8927	Rocker Arm Stud Installer		X					X	X		X	X	X	X	X
	J 8928	Valve Train Gauge		X					X	X		X	X	X	X	X
	J 8929-01	Valve Spring Compressor		X	X				X	X		X	X	X	X	X
	J 8934	Distributor Shaft Pilot Bearing Remover (Use with J 6125)		X	X				X	X		X	X	X	X	X
	J 9510-03	Piston Pin Remover & Installer	X		X	X	X									
	J 9534-01	Distributor Shaft Pilot Bearing Remover (Use with J 6125)	X		X											
	J 9535	Distributor Shaft Pilot Bearing Installer & Remover	X		X											
	J 21054-1	Handle (Camshaft Bushing Remover & Installer) (Use with J 21473-1)			X											
	J 21147	Timing Chain Cover Oil Seal Installer							X	X		X	X	X	X	X
	J 21473-1	Camshaft Bushing Remover & Installer Adapter (Use with J 21054-1)			X											
	J 21505	Water Pump Hub Locating Gauge			X											
	J 21742	Timing Cover Alignment Gauge			X											
	J 22126	Rocker Arm Stud Reamer .4365"							X	X		X	X	X	X	X
	J 22232	Belt Tension Fixture				X	X									
	J 22260	Crankshaft Front Cover Oil Seal Installer				X	X									

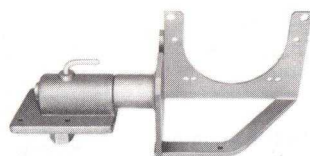
SPECIAL TOOLS PONTIAC—(Continued)

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 22261	Camshaft Oil Seal Remover				X	X									
	J 22262	Camshaft Oil Seal Installer				X	X									
	J 22263	Valve Spring Compressor				X	X		X	X		X	X	X	X	X
	J 22264	Distributor Drive Shaft Bearing & Seal Remover (Use with J 6125)				X	X									
	J 22267	Distributor Drive Shaft Bearing & Seal Installer				X	X									
	J 22278	Air Line Adapter-Valve Spring Compressor (Use with J 8929-01)				X	X		X	X		X	X	X	X	
	J 22284	Slide Hammer Adapter (Camshaft Remover—Use with 5/8" x 11 Slide Hammer)					X									
	J 22325	Rear Main Crankshaft Bearing Cap Installer					X									
	J 22330	Valve Seal Installer & Tester				X	X		X	X		X	X	X	X	X
	J 22562	Piston Ring Compressor 3 ²³ / ₃₂ "							X							
	J 22563	Piston Ring Remover & Installer 3 ²³ / ₃₂ "							X							
	J 22775	Oil Filter Wrench	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 22902	Piston Ring Remover & Installer 4 ¹ / ₈ "	X										X		X	
	J 23042	Timing Seal Installer & Aligner	X		X		X									
	J 23342	Rocker Arm Stud Installer														X

SPECIAL TOOLS PONTIAC—(Continued)

			6 250	4 195	6 215	OHC 6 230	OHC 6 250	V-8 215	V-8 326	V-8 350	V-8 370	V-8 389	V-8 400	V-8 421	V-8 428	V-8 455
	J 23343	Rocker Arm Stud Installer														X
	J 23503	Piston Ring Compressor (4.151)											X		X	X
	J 23515-02	Engine Lifting Fixture											X		X	X

TRANSMISSION HOLDING FIXTURES



J 6115-02
American Motors
Flash-O-Matic



J 3289-20
Base & Screw Assembly



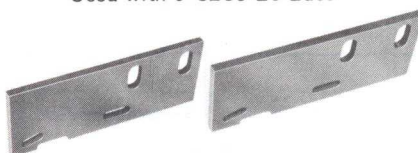
J 6638
Chevrolet Turboglide
Use with J 3289-20 Base



J 22240
Front Wheel Transmission
Used with J 3289-20 Base
Cadillac & Oldsmobile



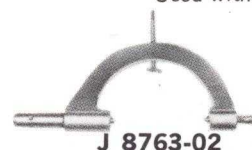
J 21533
All Synchromesh
Used with J 3289-20 Base



J 23541
Holding Fixture
Power Glide
Use with J 3289-01



J 7896-01
Corvair
Used with J 3289-20 Base



J 8763-02
All Hydramatic Super Turbine
& Opel Automatics
Used with J 3289-20 Base
























J 22719
Adapter—
Used To Adapt
J 5856-02 Engine Stand
to Transmission Holding
Fixtures J 8763-02 &
J 22240







CLUTCH

	J 1048	Clutch Finger Setting Gauge	ALL—Borg and Beck Clutch		J 21714	Clutch Aligning Arbor	OPEL KADETT—Thru 1970 1.1 Liter
	J 1435	Clutch Shaft Aligner	AM. MTRS.—1958-66 50-06: V-8 63-66: 10 V-8		J 21746	Clutch Pedal Spring Remover & Installer	AM. MTRS.—1963-66 w/synchromesh
	J 1448	Clutch Pilot Bearing Puller	CHEV.—All OLDS.—All		J 22056	Clutch Alignment Arbor	AM. MTRS.—1963-67 10 Heavy Duty 1966-67:01—4 Speed
	J 1522	Clutch Pilot Bushing Driver	CHEV.—All BUICK—All		J 22347	Self-Adjusting Clutch Gauge	AM. MTRS.—1966-67 10-50-80 with 232
	J 5824	Clutch Disc Aligning Tool	CHEV.—1964-68 Clutch Corv. 1960-68		J 22934	Clutch Alignment Arbor	OPEL KADETT—Thru 1970 1.5 & 1.9 Liter
	J 5901-2	Clutch Pilot Bearing Remover (use with J 2619-01)	OLDS.—All PONT.—All		J 23330	Clutch Lever Height Tool	AM. MTRS.—All
	J 21617	Clutch Aligning Arbor	AM. MTRS.—1963-65 01-10 (1956) 1965-70: 199-232				

















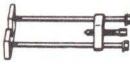
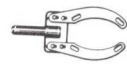












SYNCHROMESH AMERICAN MOTORS

	J 1434	Transmission Guide Pins (Pair)	ALL—with 7/16-14 Thread		J 21568-01	Transmission Thrust Yoke	AM. MTRS.—1964-67; 10-50-80 T 86 & T 90
	J 2040	Transmission Thrust Yoke	AM. MTRS.—1956-70 T96H		J 21617	Clutch Aligning Arbor	AM. MTRS.—Late 1963-64-65: 01-10 (195.6) 1965-68 (199-232)
	J 4830-02	Transmission Rear Seal Remover	AM. MTRS.—1960-70 3 & 4 Speed		J 22056	Clutch Aligning Arbor	AM. MTRS.—1963-68: 10 Heavy Duty 1966-67: 01 4 Speed 1967-68: 10-50-80 (290-343)
	J 5589	Countershaft Loading Tool	AM. MTRS.—1966-70 4 Speed Trans.		J 22538	Reverse Gear Housing Bushing Remover & Installer	AM. MTRS.—1966-68: 4 Speed w/290 Engine
	J 5875	Front Clutch Spring Compressor	AM. MTRS.—All		J 22656	Transmission Thrust Yoke	AM. MTRS.—1964-70 01-10-50-70-80 T9 6 J
	J 6652	Transmission Thrust Yoke	AM. MTRS.—1957-64: 80; 1965-68 10-50-80 (327)		J 22697	Transmission Rear Bearing Installer	AM. MTRS.—1967-68: 01-10-50-70-80 V-8 3 Speed
	J 6654-01	Transmission Bearing Puller	AM. MTRS.—1957-64: 80 1955-66: 10-50-80 (327) 1966-71: 4 Speed 1967-71: 3 Speed		J 22978	Countershaft Loading Tool	AM. MTRS.—1968-70 T-14
	J 8157	Transmission Front Bearing Puller	AM. MTRS.—1955-65: 01 (6 cyl) 1964-66: 10 (6 cyl) 1965-66: 10-50-80 (232-287) 1969-70: 01 (199)		J 22979	Countershaft Loading Tool	AM. MTRS.—1968-70 T-15
	J 8698	Gear Shift Lever Alignment	AM. MTRS.—with Ainsworth Column		J 22994	Mainshaft Pilot & Support	AM. MTRS.—1968-70 T-14 & T-15
	J 9617	Rear Oil Seal Installer	AM. MTRS.—1965-70: 3 & 4 Speed Except 327 C.I.D. 10-50-80		J 23330	Clutch Lever Height Gauge	AM. MTRS. Thru 1969
	J 9618	Extension Housing Bushing Remover & Installer	AM. MTRS.—Std. & Flash-O-Matic 1962-68: 01 3 Speed Trans.				







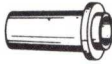





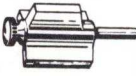












SYNCHROMESH GENERAL MOTORS—ALL DIVISIONS

	J 932	Snap Ring Pliers	ALL GM—3 Speed		J 1126	Transmission Alignment Stud (Pair)	CHEV.—Std. 3 Speed BUICK—Std. 3 Speed PONT.—1958-71
	J 933-03	Transmission Clutch Gear Nut Retainer Wrench (1 5/8")	CHEV.—All Std. 3 Speed & Overdrive PONT.—1958-68 OLDS.—1958 & Up BUICK—3 & 4 Speed		J 1453-01	Speedometer Drive Gear Press Plate (Use with J 358-1)	CHEV.—1965-68
	J 937	Transmission Clutch Gear & Bearing Puller	CHEV.—All 3 Speed Trans. and Overdrive Thru 1957		J 3049	Shift Rail Rotating Pliers	BU., PONT., OLDS. 3 Speed—All forward speeds synchronized H.D.































SYNCHROMESH GENERAL MOTORS—ALL DIVISIONS—(Continued)

	J 3185	Transmission Mainshaft Rear Bearing Snap Ring Remover	CHEV.—1949-54 (3 Speed)		J 8872	Synchronizer Remover & Installer Pliers	OPEL—Thru 1971 1.1 Liter
	J 4830-02	Extension Housing Bushing & Oil Seal Remover (Use with 5/8 x 11 Slide Hammer)	PONT., OLDS., BU. 1966-70—3 & 4 Speed		J 8880	Transmission Front Bearing Remover	CHEV.—1961-63 CORV.—1960-68 TEMP.—1961-63 (4 Speed)
	J 5589	Countershaft Gear Alignment Tool	CHEV.—4 Speed Thru 1965—PONT. 1958-65		J 8965	Countershaft Gear Alignment Tool	BUICK—1961-63 40-41-43—1965-46
	J 5590	Transmission Front Bearing Installer	CHEV.—1955-71 Corv.—1962-69		J 9156	Clutch Drive Shaft Bearing Remover (Use with J 358-1)	TEMP.—1961-63
	J 5777	Countershaft Gear Alignment Tool	OLDS.—1964 CHEV.—Std. 3 Speed PONT.—Std. 1958-65 BUICK—1964-65—3 Speed		J 9573	Countershaft Gear Alignment Tool	BUICK—1962-63-65 4 Speed F-85—1962-63
	J 5778	Transmission Extension Housing Bushing Remover & Installer	CHEV.—1955-71		J 9575	Extension Housing Bushing Remover & Installer	BUICK—1962-63 Series 44-46-47-48 F-85—1962-67
	J 5814-01	Speedometer Gear & Rear Bearing Remover & Installer	CHEV.—1955-71 PONT.—1964-71 TEMP.—1963-71		J 9578-01	Speedometer Gear Remover	BUICK—1964-70 43-44-46-48, 1964; 40-41-47, 1965; 45-49
	J 5859	Extension Housing Oil Seal Remover (Use with 5/8"—18 Slide Hammer)	CHEV.—1955-62 2 Speed Trans.		J 21470	Speedo Gear Installer (Main Shaft Bearing Installer)	OLDS.—1966-1968 3 Speed
	J 6123-01	Speedo Gear Remover	OLDS.—3 & 4 Speed up to 1968		J 21533	Transmission Housing Fixture (Use with J 3289-20)	ALL
	J 6399	Extension Housing Bearing Remover & Installer	CHEV.—1955-57 Pont.—1968-70 4 Speed		J 21603	Shift Linkage Positioning Gauge	BUICK—1964 40-41-43 OLDS.—1964 3000-3200 Series
	J 6403-02	Extension Housing Bushing & Oil Seal Installer	PONT., OLDS., BU. 3 & 4 Speed—1966-71		J 21618	Shift Linkage Positioning Gauge	OLDS.—1964 3300 Series
	J 8569	Release Bearing Seal Installer	OPEL—Thru 1971 1.1 Liter		J 21629	Countershaft Gear Alignment Tool	CHEV.—3 Speed Heavy Duty Warner 1966-71 OLDS.—1964-68
	J 8609	Press Plate Mainshaft Assembly	BUICK—1968-71 3 Speed		J 21663	Shifter Fork Alignment Gauge	BUICK—1964; 40-41 43-44-46-47-48
	J 8760-01	Speedo Gear Remover	BUICK—1964-66 4 Speed OLDS.—1965-68 3 & 4 Speed		J 21684	Bearing Press Plate	OPEL KADETT— All Thru 1971
	J 8864	Transmission Seal Installer	BUICK SPEC.— 1961-64; 40-41-43; 1965-46 Series 1966; 3 & 4 Speed		J 21708	Clutch Gear Ball Bearing and Speedometer Gear Installer	OPEL KADETT— Thru 1971—1.1 Liter






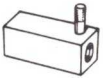
SYNCHROMESH GENERAL MOTORS—ALL DIVISIONS—(Continued)

	J 21709	Shift Lever Lock Cap Remover & Installer	OPEL KADETT— Thru 1971—1.1 Liter		J 22379	Countershaft Gear Alignment Tool	OLDS.—1966-71 4 Speed PONT.—1966-71 4 Speed Muncie
	J 21715	Detent Pin Plug Remover (Use with J 7004-1)	OPEL KADETT— All—Thru 1971 CHEV.—Vega 2300		J 22414	Countergear Needle Bearing Loader	OPEL KADETT— Thru 1971 1.1 Liter
	J 21722	Guide Pin (2 required)	OPEL KADETT— Thru 1971		J 22629	Countershaft Aligning Tool	F. B. Warner 3 Speed 1967-1968
	J 21740	Extension Housing Oil Seal Installer	OPEL KADETT— Thru 1971		J 22911	Needle Bearing Loader	CHEV.—Vega 2300 OPEL—1968-71 1.5 & 1.9 Liter
	J 21774-03	Transmission Output Shaft Bearing Remover & Installer	BU., OLDS., PONT. 1967-70—3 Speed All forward speeds synchronized Heavy Duty		J 22913	Mainshaft Assembly Tool	OPEL—1968-71 1.5 & 1.9 Liter
	J 21775-01	Countershaft Gear Alignment Tool	BU., OLDS., PONT. 1967-70—All forward speeds synchronized Heavy Duty		J 22922	Transmission Extension Housing Seal Installer	OPEL—1968-71 1.5 & 1.9 Liter
	J 21856	Shift Lever Positioning Gauge	OLDS.—1965		J 22923	Reverse Idler Shaft Remover	CHEV.—Vega 2300 OPEL—1968-71 1.5 & 1.9 Liter
	J 21858	Press Plates (Use with J 6407)	PONT.—1968-71 3 Speed Synchronized		J 22926	Speedometer Driven Gear Pin Remover (Use with J 7004-1 Slide Hammer)	OPEL—1968-71 1.5 & 1.9 Liter
	J 21892	Countershaft Gear Alignment Tool	OLDS.—1965 3 Speed		J 22929	Speedometer Driven Gear Remover & Installer (Use with J 7004-1 Hammer)	OPEL—1968-70 1.5 & 1.9 Liter
	J 21985	Speedometer Drive Gear Removing Rods	OLDS.—3 & 4 Speed		J 22934	Clutch Plate Aligning Arbor	OPEL—1968-70 1.5 & 1.9 Liter
	J 22239	Detent Pin Installer	PONT.—1966-71 Heavy Duty 3 Speed OLDS.—1966-68 Heavy Duty 3 Speed BUICK—1966-68 Heavy Duty 3 Speed		J 23562	Counter Gear Shaft	CHEV.—Vega 2300
	J 22246	Countershaft Gear Alignment Tool	BUICK—1966 3 Speed 1967-71 3 & 4 Speed CHEV.—1966-71 3 & 4 Speed OLDS.—1966-71 3 Speed PONT.—1966-71 3 & 4 Speed		J 23596	Transmission Rear Oil Seal Installer	CHEV.—Vega 2300
					J 23644	Clutch Ball Stud Adjusting Gauge	CHEV.—Vega 2300



FLASH-O-MATIC AMERICAN MOTORS

	J 2619-01	Slide Hammer ($\frac{5}{8}$ " x 18 Thread) with $\frac{1}{2}$ "—13 Adapter		J 8641	Solenoid Wrench— $1\frac{1}{16}$ " (1957-61 All; 1962-65 80 V-8; 1963-65 10 V-8)
	J 2623	Extension Housing Oil Seal Remover (M-12 only) (Use with $\frac{5}{8}$ " x 11 Slide Hammer)		J 8773	Vacuum & Solenoid Control Adjusting Kit (All 1957-61; All 1962-65 (287-327) 80 V-8; 1963-65 10 V-8)
	J 4830-02	Transmission Rear Oil Seal Remover (Use with $\frac{5}{8}$ " x 11 Slide Hammer) (1967-70 Aluminum Case J-5)		J 9617	Rear Oil Seal Installer (1965-70 Alum. Except 1965-66 10-50-80)
	J 5864	Dial Indicator Support Shaft		J 9618	Extension Housing Bushing Remover & Installer—1968-70 (Aluminum)
	J 5875	Front Clutch Spring Compressor 1957-70		J 9620	Front Clutch Annular Piston & Seal Installer—1962-67 (6 cyl.)
	J 5880-01	Front Band Adjusting Tool 1957-70		J 9621	Rear Clutch Annular Piston & Seal Installer—1962-67 (6 cyl.)
	J 5886-01	Rear Clutch Spring Compressor 1957-70		J 9639	Torque Wrench Adapter—1962-67 (Aluminum)
	J 5907-3	Pressure Gauge Hose (Use with J 6840-1)		J 9640	Extension Housing Bushing Remover & Installer (Use with J 8092 Handle) 1962-66 Aluminum (except 01); 1964-66 232-287; 1968-70 Cast Iron
	J 6069	Front Oil Seal Installer (Use with J 8092 Handle) (1957-61 All)		J 9644	Throttle Rod Parking Brake Shaft Pin Remover—1962-65: 01-10 (6 cyl.); 1965: 80 (6 cyl.)
	J 6115-02	Transmission Holding Fixture		J 21005-01	Front Pump Oil Seal Installer 1963-70 (Cast Iron)
	J 6494-17	Case Front Bushing Remover & Installer—1957-70 (Cast Iron)		J 21054-2	Case Rear Bushing Remover & Installer (Use with J 8092) 1967-70 (Aluminum)
	J 6655	Rear Band Adjusting Torque Wrench Extension—1957-61		J 21126	Oil Seal Ring Locking Tool (1962-63 All)
	J 6840-1	Pressure Gauge (0-400 lbs.) (Use with J 5907-3)		J 21984	Front Pump & Rear Housing Seal Installer—1958-70 (Cast Iron); 1965-66: 10-50-80 (6 cyl.)
	J 8092	Driver Handle (threaded type)		J 22182	Pump Front Bushing Remover & Installer (Use with J 8092) 1967-70 (Aluminum)
	J 8400-11	Pump Rear Bushing Installer & Output Shaft Bushing Installer (Aluminum Case)		J 22205	Front Pump Oil Seal Remover 1964-70





FLASH-O-MATIC AMERICAN MOTORS—(Continued)

	J 22538	Reverse Gear Housing Bushing Remover & Installer—1966-70 (Cast Iron)		J 23335	Pump Front Bushing Remover & Installer (M-11 & M-12 1967-69) (Use with J 8092)
	J 22574	Rear Case Bushing Remover & Installer—1966-70 (Aluminum)		J 23336	Adapter Plate Bushing Installer (M-11 & M-12 1967-69) (Use with J 8092)
	J 22698	Rear Band Adjuster—1957-70 All		J 23499	Solenoid Checking Fixture 1967-70 All





















AUTOMATIC DUAL RANGE—GENERAL MOTORS

	J 1354	Rear Bearing Retainer Oil Seal Replacer		J 2623	Extension Housing Oil Seal Remover (Use with 5/8" x 11 Slide Hammer)
	J 1693-02	Front Servo Adjusting Gauge		J 4415	Rear Servo Spring Compressor
	J 2170	Front Cover Oil Seal Installer		J 4731	Governor to Sleeve Aligning Gauge
	J 2174	Rear Clutch Hub Retainer Bracket		J 4752	Reverse Piston to Drum Installer
	J 2187	Front Planet Carrier Assembly Holder		J 5071	Rear Servo Gauge
	J 2544-01	Linkage Adjusting Pin		J 7142	Bushing Driver Set
	J 2587	Mainshaft End-Play Guide			









DYNAFLOW—BUICK

	J 2590-02	Clutch Spring Compressor 1961-63; Series 40-41-43-44-46-47-48		J 5806	Stator Remover & Installer (1961-63; 44-46-47-48)
	J 2619-01	Slide Hammer (5/8" x 18 Thread with 1/2" x 13 Adapter)		J 5822	Input Shaft Bearing Remover (1961-63; Series 44-46-47-48) (Use with 1/2"—13 Slide Hammer)






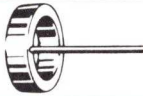

























AUTOMATIC DYNAFLOW—BUICK—(Continued)

	J 5899-01	Converter Cover Clearance Gauge (1961-63; 44-46-47-48)		J 9153	.025" Feeler Gauge (1961-63; 40-41-43)
	J 5907	Pressure Gauge Set (9-ft. hose) 0-300 P.S.I.		J 9154	Front Pump Bushing Remover (Use with J 7079-2 Handle) (1961-63; Series 40-41-43)
	J 6586	Oil Delivery Sleeve Remover & Installer (1961-63; Series 40-41-43)		J 9155	Front Pump Bushing Installer (Use with J 7079-2 Handle) (1961-63; 40-41-43)
	J 6964-01	Front Pump Oil Seal Installer (1961-63; 44-46-47-48)		J 9157	Converter Clearance Gauge (1961-63; 40-41-43)
	J 7004	Front Pump Assembly Removers (Pair) (1961-63; 40-41-43)		J 9167	Transmission End Play Clearance Gauge (1961-63; 40-41-43)
	J 7079-2	Driver Handle (Non-threaded type)		J 9199	Pump to Housing Alignment Guide (1961-63; Series 40-41-43)
	J 8092	Driver Handle (Threaded type)		J 9313	Belleville Spring Centering Tool (1961-63; 40-41-43)
	J 8117	Output Shaft Remover (Use with J 2619-01 Slide Hammer) All 1960 (1961-63; Series 40-41-43)		J 21301	Converter Pump Bushing Installer (1963)
	J 8864	Rear Transmission Seal Installer (1961-63)		J 21302	Converter Pump Bushing Remover (Use with 3/8" x 16 Slide Hammer) (1963)
	J 9152	Front Pump Seal Installer (1961-63; Series 40-41-43)		J 21469	Transmission Case Bushing Installer & Remover (Use with J 8092 Handle)

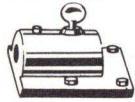







POWERGLIDE—CHEVROLET (Cast Iron & Aluminum)

	J 3289-01	Differential Holding Fixture (Use with J 23541 Holding Fixture)		J 3387	Pilot Stud Set
	J 3365	Servo Ring Compressor (1950-61)		J 4260-02	Transmission End Clearance Gauge (1957-61)
	J 3377	Reverse Servo Piston Apply Spring Compressor		J 4263	Front Pump Driver
	J 3383	Parking Lock Pawl Spring Remover & Installer		J 4277	Servo Band Adjusting Wrench





















AUTOMATIC POWERGLIDE—CHEVROLET (Cast Iron & Aluminum)—(Continued)

	J 4599	Planet Pinion Pin Assembly Tool (Pair)		J 7782	Clutch Spring Compressor Adapter Plate
	J 4628	Flywheel Housing Dowel Pin Reamer (.421") (1950-57)		J 8039	Snap Ring Pliers
	J 4656	Flywheel Housing Alignment Checking Fixture (1950-57)		J 8364	Rear Thrust Washer Selector Gauge Support and Extension
	J 5133	Clutch Spring Compressor		J 9538	Planet Pinion Assembly Tool (1962-63)
	J 5154	Transmission Housing Extension Oil Seal Installer		J 9539	Front Pump Slide Hammer Adapter (Pair) (Use with 3/8" x 16 Thread Slide Hammer)
	J 5382	Torque Converter Cover Bushing Installer (1953-61)		J 9543	Vacuum Modulator Wrench (1")
	J 5384	Converter Assembly Holding Tool (1953-61)		J 9546	Clutch Drum Bushing Remover & Installer (Chevy II—1962 and up)
	J 5390	Stator Race Installer (1953-61)		J 9549	Converter Holding Strap (Chevy II—1962 and up)
	J 5403	Accumulator Retainer Pliers (#21 Internal)		J 9557	Transmission End Case Bushing Remover & Installer (Chevy II—1962 and up)
	J 5778	Extension Housing Bushing Remover & Installer		J 9560	Planet Pinion Assembly Tool
	J 5814-01	Speedometer Gear & Rear Bearing Remover & Installer		J 21848	Powerglide Low Band Adjuster (1962 and up)
	J 5906	Throttle Lever Positioning Gauge (1953-61)		J 21867	Transmission Pressure Gauge & Hose
	J 6793	Front Pump Oil Seal Remover (1953-61)		J 23327	Clutch Spring Compressor (Use with J 23466 Adapter)
	J 6839	Front Pump Oil Seal Installer		J 23466	Clutch Spring Compressor Adapter (Use with J 23327—Pont. 1970 M-35 Trans.)
	J 7079-2	Driver Handle (Non-threaded type)		J 23541	Transmission Holding Fixture (Use with J 3289-01)
	J 7674-01	Vacuum Modulator Wrench (.899")			







AUTOMATIC POWERGLIDE—CORVAIR

	J 3289-20	Holding Base (Use with J 7896-01)		J 7782	Brake Piston Spring Compressor (1962 and up)
	J 5133	Clutch Spring Compressor		J 7896-01	Transmission Holding Fixture (Use with J 3289-20 Base)
	J 6585-01	Transmission Front Pump Assembly Remover (Pair) (1960-62)		J 8360	Transmission Bushing Installer Set
	J 7079-2	Installer Handle (Non-threaded type)		J 8365	Manual Valve Lever Gauge







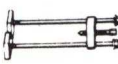

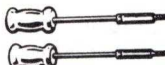



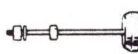









TEMPESTORQUE—TEMPEST 1961-1963

	J 2619-01	Slide Hammer Assembly ($\frac{5}{8}$ " x 18 Thread—includes $\frac{1}{2}$ " x 13 Adapter)		J 21025-01	Stator Oil Seal Installer
	J 7079-2	Driver Handle (Non-threaded type)		J 21026	Rear Bearing Retainer Bushing Installer
	J 7896-01	Transmission Holding Fixture (Use with J 3289-20 Base)		J 21033	Extension Housing Oil Seal Installer (Use with J 7079-2 Handle)
	J 8092	Driver Handle (Threaded type)		J 21034	Stainless Steel Quick Couple Clamp—Clutch Piston Compressor
	J 8364	Rear Thrust Washer Selector Gauge Support and Extension		J 21093	Front Thrust Washer Selector Gauge
	J 8365	Manual Valve Positioning Gauge		J 21094	Low Sun Gear & High Clutch Flange Bushing Installer (Use with J 8092)
	J 8400-1	Chisel		J 21095	Turbine Shaft Bushing Installer (Use with J 8092)
	J 9183	Converter Holding Tool		J 21096	Converter Hub Bushing Installer (Use with J 8092)
	J 9538	Planet Pinion Assembly Tool		J 21098	Front Pump Bushing Installer (Use with J 8092)
	J 9546	Clutch Drum Bushing Remover & Installer		J 21198	Converter Holding Tool

AUTOMATIC TEMPESTORQUE—TEMPEST 1961-1963—(Continued)

	J 21199	Converter Remover		J 21263	Needle Bearing Remover
	J 21237	Low Servo Valve Installer		J 23327	Clutch Spring Compressor (Use with J 23466 Adapter)
	J 21249	Needle Bearing Installer (Use with J 8092)		J 23466	Clutch Spring Compressor Adapter (Use with J 23327)



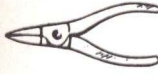















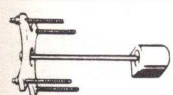





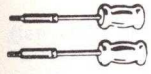

ROTO-HYDRA-MATIC—Model 240 Oldsmobile 1961-64 except 1964 F-85 and Jetstar 88

	J 4670-01	Clutch Spring Compressor (Used with J 6129 & J 21664)		J 8614-01	Transmission Companion Flange Holder & Remover (Use with J 9277 & J 9277-2 Adapter)
	J 5154	Extension Housing Oil Seal Installer		J 8760-01	Speedo Gear Puller Adapter (Use with J 6123-01)
	J 6122-01	Exhaust Valve Spring Retainers (Pair)		J 8761	Front Pump Oil Seal Installer
	J 6123-01	Speedo Gear & Rear Pump Remover		J 8763-02	Transmission Holding Fixture (Use with J 3289-20 Base)
	J 6125	Pump & Support Assembly Remover (Pair) ($\frac{5}{16}$ "—18 Thread)		J 8768-01	Reverse Cone Puller
	J 6126	Dial Indicator Support Fixture (Use with J 6135)		J 8828	Front Pump Oil Seal Protector
	J 6129	Reverse Clutch Spring Compressor (Use with J 4670-01 & J 21664)		J 8843	Reverse Clutch Inner Oil Seal Protector
	J 6133	Rear Oil Pump Bearing & Speedo Gear Installer		J 8871	Tru-Arc Pliers #2, 90° Tip (External)
	J 6135	Rear Unit Clutch Retainer (Use with J 6126)		J 8872	Tru-Arc Pliers #4, 90° Tip (External)
	J 8001	Dial Indicator Set		J 8873	Tru-Arc Pliers #5, 90° Tip (Internal)
	J 8591	$\frac{7}{32}$ Allen Wrench with $\frac{3}{8}$ " Drive Socket		J 8874	$\frac{3}{8}$ " Drive Socket—with $\frac{5}{16}$ " Clutch Head

AUTOMATICROTO-HYDRA-MATIC—Model 240 Oldsmobile 1961-64 except 1964 F-85 and Jetstar 88
(Continued)




	J 8938	Guide Pin Set (Pair)		J 21664	Compressor Adapter (Use with J 4670-01 & J 6129)
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CONTROLLED COUPLING HYDRA-MATIC—MODEL 315
Olds 1956-60—Cadillac 1956-64—Pontiac 1956-64













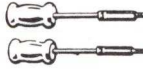











	J 4670-01	Clutch Spring Compressor (Use with J 6129 & J 21664)		J 6126	Dial Indicator Support Fixture (Use with J 6135)
	J 4880	#22 Tru-Arc External Snap Ring Pliers		J 6127	Mainshaft End Play Checking Fixture
	J 5154	Extension Housing Oil Seal Installer		J 6129	Reverse Clutch Spring Compressor (Use with J 4670-01 & J 21664)
	J 5907	Universal Pressure Checking Gauge Set (9 Ft. Hose) 0-300 P.S.I.		J 6133	Rear Oil Pump Bearing & Speedo Gear Installer
	J 6083	#24 External Tru-Arc Snap Ring Pliers		J 6135	Rear Unit Clutch Retainer (Use with J 6126)
	J 6116-01	Clutch Unit Holding Fixture		J 6282	Front Unit End Play Checking Fixture
	J 6118	Flywheel Rear Housing Oil Seal Installer		J 6342-01	Vacuum Throttle Check Clamp
	J 6119	Flywheel Housing Oil Seal & Bushing Protector		J 7026	Flywheel Housing Oil Seal Installer & Staking Tool
	J 6120-01	Drive Flange Retainer		J 7027	Flywheel Housing Support
	J 6121	Front Unit Coupling Cover Remover		J 7073	Air Plug Checking Set
	J 6122-01	Exhaust Valve Spring Retainers (Pair)		J 7577	Reverse Piston Inner Seal Pilot
	J 6124	Accumulator Cover Remover & Installer		J 8001	Dial Indicator Set
	J 6125	Pump & Support Assembly Remover (Pair) (5/16"-18 Thread)		J 8059	Snap Ring Pliers—External Parallel Jaws

AUTOMATIC**CONTROLLED COUPLING HYDRA-MATIC—MODEL 315**

Olds. 1956-60—Cadillac 1956-64—Pontiac 1956-64—(Continued)






	J 8092	Driver Handle (Threaded type)		J 21664	Compressor Adapter (Use with J 4670-01 & J 6129)
	J 8124-01	Oil Passage Checking Blow Gun—Air Hose Adapter			

**ROTO-HYDRA-MATIC—Model 375 Olds. 1961-64 All except 1964 F-85 & Jetstar 88
Pontiac 1961-64 All except Star Chief, Bonneville, Tempest**

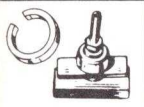

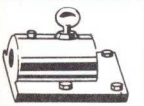



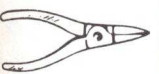



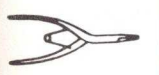




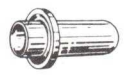






	J 2619-01	Slide Hammer Assembly ($\frac{5}{8}$ " x 18 with $\frac{1}{2}$ " x 13 Adapter)		J 8001	Dial Indicator Set
	J 4670-01	Clutch Spring Compressor (Use with J 6129 & J 21664)		J 8761	Front Pump Oil Seal Installer
	J 5154	Extension Housing Oil Seal Installer		J 8762	Pump & Rear Bearing Retainer Oil Seal Remover
	J 5907	Universal Pressure Checking Gauge Set (9 ft. Hose) 0-300 P.S.I.		J 8763-02	Transmission Holding Fixture (Use with J 3289-02 Base)
	J 6122-01	Exhaust Valve Spring Retainers (Pair)		J 8766	Reverse Clutch Oil Seal Protector
	J 6123-01	Speedometer Gear & Rear Pump Remover		J 8767	Reverse Clutch Outer Seal Protector
	J 6125	Pump & Support Assembly Remover (Pair) ($\frac{5}{16}$ "—18 Thread)		J 8768-01	Reverse Cone Puller (Use with J 6125)
	J 6126	Dial Indicator Support Fixture (Use with J 6135)		J 8828	Front Pump Oil Seal Protector
	J 6129	Reverse Clutch Spring Compressor (Use with J 4670-01 & J 21664)		J 8845	Rear Bushing Remover (Use with $\frac{5}{8}$ " x 11 Slide Hammer)
	J 6133	Rear Oil Pump Bearing & Speedo Gear Installer		J 8865	Input Shaft End Play Checking Adapter
	J 6135	Rear Unit Clutch Retainer (Use with J 6126)		J 8871	Tru-Arc Pliers #2, 90° Tip (External)
	J 6407	Press Plate Holder		J 8872	Tru-Arc Pliers #4, 90° Tip (External)

AUTOMATIC

ROTO-HYDRA-MATIC—Model 375 Olds. 1961-64 All except 1964 F-85 & Jetstar 88
Pontiac 1961-64 All except Star Chief, Bonneville, Tempest—(Continued)

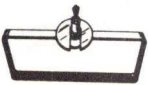



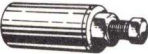

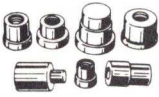

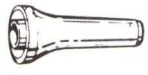



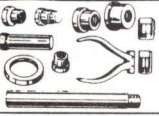
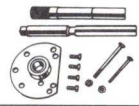


	J 8873	Tru-Arc Pliers #5, 90° Tip (Internal)		J 8938	Guide Pin Set (Pair)
	J 8874	5/16" Clutch Head Drive with 3/8" Drive Socket		J 21664	Compressor Adapter (Use with J 4670-01 & J 6129)
	J 8904	Speedo-Gear Remover & Installer (Use with J 6407)			

**SUPER TURBINE 300—BUICK
TURBINE TYPE JETAWAY—OLDSMOBILE
TURBO-HYDRA-MATIC—PONTIAC**





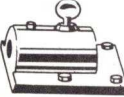



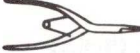
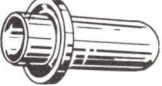


	J 2590-02	Clutch Spring Compressor (Buick)		J 8092	Drive Handle (Threaded type)
	J 3289-20	Base & Screw Assembly (Use with J 8763-02)		J 8433	Speedo Gear Remover (Use with J 21427-01) (Pontiac)
	J 4670-01	Forward Clutch Spring Compressor (Use with J 6129 & J 21664) (Olds.)		J 8591	7/32" Allen Wrench Socket (3/8" Drive)
	J 4880	#22 Tru-Arc Snap Ring Pliers, External (Buick & Olds.)		J 8763-02	Transmission Holding Fixture (Use with J 3289-20)
	J 5154	Extension Housing Oil Seal Installer (Olds., Pontiac)		J 9534-01	Distributor Shaft Pilot Bearing Remover (Planet Carrier Bushing Remover) (Use with J 7004-1) (Olds.)
	J 5586	External Vacuum Grip Snap Ring Pliers (Buick & Olds.)		J 9578-01	Speedo Gear Remover (Buick)
	J 5907	Universal Pressure Gauge (0-300 P.S.I. with 9 ft. Hose)		J 9717-2	Shifter Shaft Seal Installer (Olds.)
	J 6125	Pump & Support Assembly Remover (Pair) (Olds., Pontiac) (5/16" — 18 Thread)		J 21359	Pump Oil Seal Installer (Buick, Olds.)
	J 6129	Forward Clutch Spring Compressor (Olds.)		J 21361	Check Valve Seat Remover (Use with 3/8" x 16 Thread Slide Hammer)
	J 7004	Slide Hammers—Front Pump Assembly Remover (Pair) (Buick) (3/8" — 16 Thread)		J 21366	Converter Holding Strap (Buick)
	J 8001	Dial Indicator Set (Olds.)		J 21368	Pump Body & Cover Alignment Band (Olds., Buick)

AUTOMATIC

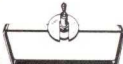
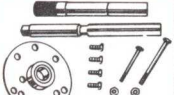




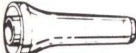







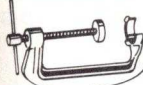



SUPER TURBINE 300—BUICK **TURBINE TYPE JETAWAY—OLDSMOBILE**
TURBO-HYDRA-MATIC—PONTIAC—(Continued)

	J 21369	Converter Leak Test Fixture		J 21547	Modulator Valve Spring Compressor (Buick)
	J 21371	Converter Stator & Turbine End Play Checking Fixture (Buick, Pontiac, Olds.)		J 21558	Check Valve Installer (Buick, Olds.)
	J 21421-01	Speedo Gear Installer		J 21654	Converter Holding Tool (Olds.)
	J 21424	Transmission Bushing Service Tool Set (Buick, Olds.)		J 21664	Compressor Adaptor (Use with J 4670-01 & J 6129)
	J 21426	Rear Oil Seal Installer		J 22269-01	Low Servo Cover Remover & Installer (Buick, Olds.)
	J 21427-01	Speedo Gear Remover (Pontiac) (Use with J 8433) (Buick)		J 22531	Clutch Head Screw Driver Adapter (1967 Buick/Auto. Cruise 1/4" Bit—1/2" Dr.)
	J 21465-01	Bushing Service Set		J 22976	Governor Bore Bushing Installer Tool Set
	J 21470	Speedo Gear Installer (Buick)		J 23327	Reverse Clutch Spring Compressor











TURBO HYDRA-MATIC 350—CHEVROLET, OLDSMOBILE, PONTIAC, BUICK

	J 2590-02	Clutch Spring Compressor (Buick)		J 7004	Slide Hammers (Pair) (for pump body removal) (5/8" x 16 thread)
	J 2619-01	Slide Hammer (5/8" x 18 with 1/2" x 13 Adapter)		J 8092	Driver Handle (Threaded type)
	J 3289-20	Transmission Holding Fixture Base		J 8763-02	Transmission Holding Fixture (Use with J 3289-20)
	J 5154	Extension Housing Seal Installer (Chevrolet)		J 9534-01	Output Shaft Bushing Remover (Use with J 7004-1)
	J 5586	External Vacuum Grip Snap Ring Pliers		J 21359	Pump Oil Seal Installer
	J 5778	Extension Housing Bushing Installer (Chevrolet)		J 21366	Converter Holding Strap (Buick)

AUTOMATIC**TURBO HYDRA-MATIC 350—CHEVROLET, OLDSMOBILE, PONTIAC, BUICK**
(Continued)














	J 21369	Converter Leak Test Fixture		J 22976	Governor Bore Bushing Installer Tool Set
	J 21424-7	Stator Shaft Bushing Installer (Front) (Use with J 8092)		J 23062	Bushing Service Tool (Use with J 8092)
	J 21424-9	Extension Housing Bushing Remover & Installer (Use with J 8092)		J 23069	Accumulator Cover Remover & Installer
	J 21426	Extension Housing Oil Seal Installer (Olds., Buick, Pontiac)		J 23071	Band Apply Pin Gauge
	J 21465-13	Driver Handle Extension (Use with J 8092)		J 23103	Output Shaft Yoke Seal Remover & Installer (Olds., Buick, Chevrolet)
	J 21465-15	Stator Shaft Bushing Remover (Use with J 8092)		J 23112	Pump Check Valve Seal Installer
	J 21465-17	Converter Hub Bushing Remover & Installer (Use with J 8092) (Buick, Olds., Pontiac)		J 23134	Pump Check Valve Seat Remover
	J 21885	Direct Clutch Accumulator Piston Compressor		J 23327	Clutch Spring Compressor (Chevrolet, Olds., Pontiac)
	J 22269-01	Direct Clutch Accumulator Piston Remover & Installer		J 23329	Direct Clutch Bushing Installer (Use with J 8092) (Chevrolet)

TURBO HYDRA-MATIC 400 & 425—CADILLAC, CHEVROLET, OLDSMOBILE, PONTIAC, & BUICK

	J 2590-02	Clutch Spring Compressor (Buick)		J 5207	#25 Internal Snap Ring Pliers For Pump Shaft Bearing Retainer Remover & Installer
	J 3289-20	Base & Screw Assembly (Use with J 8763-02)		J 5384	Converter Assembly Holding Tool (Use with J 21366) (Chevrolet)
	J 4646	Internal Snap Ring Pliers—Tru-Arc #5 (Cadillac)		J 5403	Snap Ring Pliers for Low Band Drive Valve (#21 Internal)
	J 4670-01	Clutch Spring Compressor (See J 6129) (Cadillac, Chevrolet, Olds., Pontiac)		J 5586	Snap Ring Pliers—External Vacuum Grip (Buick, Pontiac)
	J 5154	Extension Housing Oil Seal Installer		J 5590	Transmission Front Bearing Installer (Chevrolet)


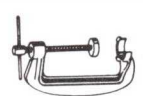

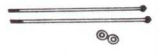




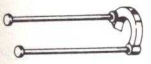
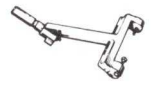








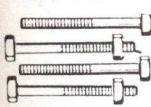


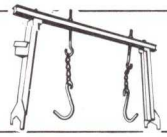
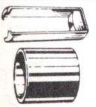
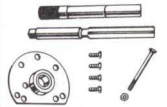


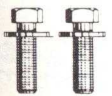

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TURBO HYDRA-MATIC 400 & 425—CADILLAC, CHEVROLET, OLDSMOBILE, PONTIAC & BUICK (Continued)


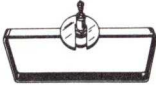











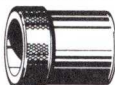
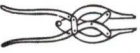




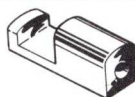



	J 5907	Universal Pressure Gauge Set (0-300 P.S.I.) 9 ft. Hose		J 9640	Extension Housing Bushing Remover & Installer (Buick)
	J 6116-01	Clutch Unit Holding Fixture (Cadillac, Chevrolet)		J 21028	Speedo Gear Installer (Pontiac)
	J 6125	Pump & Support Assembly Remover (Pair) (Cadillac, Olds., Pontiac) ($\frac{5}{16}$ "—18 Thread)		J 21359	Pump Oil Seal Installer (Buick, Cadillac, Olds.)
	J 6129	Rear Unit Release Spring Compressor (Cadillac, Olds., Pontiac)		J 21360	Check Valve Seat Installer
	J 6133	Rear Oil Pump Bearing & Speedo Gear Installer (Pontiac)		J 21361	Check Valve Seat Remover (Use with $\frac{3}{8}$ " x 16 Slide Hammer)
	J 7004	Front Pump Assembly Remover (Pair) (Buick) ($\frac{3}{8}$ "—16 Thread)		J 21362	Forward & Direct Clutch Inner Seal Protector
	J 8001	Dial Indicator Set		J 21363	Second Clutch Inner Seal Protector (Buick, Cadillac, Olds.)
	J 8059	Snap Ring Pliers—External Parallel Opening Jaws		J 21364	Support Adapter (Cadillac, Chevrolet, Olds., Pontiac)
	J 8092	Driver Handle (Threaded)		J 21366	Converter Holding Strap (Buick, Cadillac, Chevrolet, Pontiac)
	J 8105	Crankshaft Gear Puller (Used to Pull Speedo Gear) (Chevrolet)		J 21367	Rear Sprag Installer (Cadillac, Pontiac)
	J 8124-01	Oil Passage Blow Gun—Air—Hose Adapter		J 21368	Pump Body & Cover Alignment Band (Buick, Cadillac, Olds., Pontiac)
	J 8433	Speedo Gear Puller (Used with J 21427-01) (Buick, Cadillac, Chevrolet, Pontiac)		J 21369	Converter Leak Test Fixture (Buick, Olds.)
	J 8763-02	Transmission Holding Fixture (Use with J 3289-20 Base)		J 21370-4	Band to Apply Pin Gauge (Used with J 21370-6) (Cadillac)
	J 9539	Front Pump Slide Hammer Adapter (Pair) (Use with J 6125) (Chevrolet) ($\frac{3}{8}$ "—16 Thread)		J 21370-5	Band to Apply Pin Gauge (Used with J 21370-6) (Buick, Cadillac, Chevrolet, Olds., Pontiac)
	J 9578-01	Speedo-Gear Remover (Use with J 21427-01) (Buick)		J 21370-6	Band Body Arm Assembly (Used with J 21370-4, -5, -7, -8) (Buick, Cad., Chev., Olds., Pontiac)

AUTOMATIC










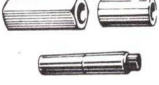















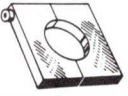




TURBO HYDRA-MATIC 400 & 425—CADILLAC, CHEVROLET, OLDSMOBILE, PONTIAC & BUICK (Continued)

	J 21370-7	Band to Apply Pin Gauge (Used with J 21370-6, -8) (Toronado, Eldorado)		J 21885	Control Valve Accumulator Piston Installer (Buick, Cadillac)
	J 21370-8	Band to Apply Pin Selector Plate (Used with J 21370-6, -7) (Toronado, Eldorado)		J 21904	Speedometer Gear Removing Bolts (Use with J 8433) (Pontiac)
	J 21371	Converter Stator & Turbine End-Play Checking Fixture (Buick, Olds.)		J 21972	Extension Housing Bushing Remover & Installer (Olds.)
	J 21409	Forward & Direct Clutch Outer Seal Protector (Buick, Olds.)		J 22182	Extension Housing Bushing Remover & Installer (Chevrolet)
	J 21427-01	Speedo Gear Remover (Used with J 8433) (Buick, Cadillac, Chevrolet, Pontiac)		J 22240	Transmission Holding Fixture (Used with J 3289-20 Base or Used with J 22719 & J 5856-02 Engine Stand) (Toronado, Eldorado)
	J 21464	Extension Housing Oil Seal Installer (Buick, Cadillac, Chevrolet)		J 22241	Forward Clutch End Play Checking Tool (Toronado, Eldorado)
	J 21465-01	Bushing Service Set		J 22269-01	Accumulator Piston Remover
	J 21477	Oil Cooler Pipe Wrench (Cadillac, Pontiac)		J 22719	Holding Fixture Adapter (Used to adapt J 22240 to J 5856-02 Engine Stand) (Toronado, Eldorado)
	J 21654	Converter Holding Tool (Olds.)		J 22731	Oil Cooler Pipe Wrench (Pontiac Tempest 1967-68)
	J 21661	Speedometer Drive Gear Remover Bolts		J 22743	Transmission Holding Bracket (Used with J 8763-02) (Toronado, Eldorado)
	J 21664	Compressor Adapter (Used with J 4670-01) (Cadillac, Chevrolet)		J 22825	Engine Support Fixture (Eldorado 1967-70; Toronado 1966-70)
	J 21795-01	Gear Unit Holding Tool (Used with J 7004-1) (Buick, Cadillac, Chevrolet, Olds., Pontiac)		J 22976	Governor Bore Bushing Installer Tool Set
	J 21795-4	Thumb Screw (Used with J 21795-01) (Cadillac)		J 23093	Center Support Locating Tool
	J 21797	Speedometer Drive Gear Bolts (Used with J 21427-01) (Cadillac)		J 23327	Reverse Clutch Spring Compressor




AUTOMATIC**OPEL 3-SPEED AUTOMATIC TRANSMISSION**

	J 2590-02	Clutch Spring Compressor		J 21369	Converter Leak Test Fixture
	J 3289-20	Holding Fixture Base (Use with J 8763-02)		J 21424-9	Extension Housing Bushing Remover & Installer (Use with J 8092)
	J 3387-2	Aligning Pin ($\frac{1}{16}$ —18) (2 required)		J 21426	Extension Housing Seal Installer
	J 5907	Universal Pressure Gauge Set (9 ft. Long) 0-300 P.S.I.		J 21465-17	Converter Housing Bushing Remover & Installer
	J 6459	Torque Wrench (0-50 in. lbs.)		J 23075	Servo & Third Clutch Piston Spring Compressor
	J 7004-1	Slide Hammer (Use with J 23129) ($\frac{3}{8}$ "—16 Thread)		J 23080	Second Clutch Piston Seal Installer
	J 8058	Torque Wrench (0-50 in. lbs.)		J 23082	Converter Housing to Oil Pump Aligning Tool
	J 8059	External Snap Ring Pliers— Parallel Opening Jaws		J 23085	Oil Pump Hub to Second Clutch Gauging Tool
	J 8092	Driver Handle (Threaded type)		J 23100	Vacuum Modulator Wrench $1\frac{3}{8}$ "
	J 8400-1	Cape Chisel (Reaction Sun Gear Drum Bushing Remover)		J 23129	Converter Housing Seal Remover (Use with J 7004-1 Slide Hammer)
	J 8763-02	Transmission Holding Fixture (Use with J 3289-20)		J 23130	Bushing Service Tool Set (Use with J 8092)
	J 21359	Converter Housing Seal Installer			

























REAR AXLE SHAFT BEARING REMOVERS AND INSTALLERS

	J 943	Axle Bearing Cup Remover	CAD.—1970		J 21051	Axle Shaft Bearing & Oil Seal Installer (Used with J 8092 Handle)	PONT.—1964-70
	J 2986-01	Axle Shaft Bearing Remover & Installer	CAD.—All thru 1969		J 21491	Wheel Bearing & Oil Seal Installer (Light Duty) (Used with J 7079-2 Handle)	OLDS.—1968 F-85—"C" Axle CHEV.—1964-70 BU.—1968-70: 43-44 "C" Axle
	J 5746	Axle Shaft Bearing Installer	BU.—1962 CHEV.—1955-60 PONT.—1961-63		J 21684	Axle Shaft Bearing Installer	OPEL KADETT— thru 1970
	J 6257	Axle Shaft Bearing Retainer Ring Installer (Used with J 6407 Holder)	BU.—1963 CAD.—1957-71		J 21721	Axle Shaft Bearing Remover (Used with J 8805-01)	OPEL KADETT— thru 1970
	J 6525-01	Axle Shaft Bearing Remover	ALL GM		J 21843	Drive Spindle Flange & Bearing Installer	CORVAIR—1965-68
	J 6661	Axle Shaft Bearing and Retainer Ring Installer	CHEV.—1957-64		J 21858	Axle Bearing Remover (Used with J 6407)	PONT.—1965-70
	J 6783	Axle Shaft Bearing and Retainer Ring Installer (Used with J 6407 Holder)	OLDS.—1957-60 PONT.—1957-70		J 22813-01	Axle Shaft Bearing & Seal Remover (Used with J 2619-01)	PONT.—1970 "C" Axle BU.—1968-70: 43-44 "C" Axle CHEV.—Vega 2300 OLDS.—1968 "C" Axle
	J 8331	Axle & Pinion Bearing Remover (Used with J 358-1 Holder)	CORVAIR—1965-67		J 22935	Axle Shaft Bearing Remover (Used with J 2619-01)	OPEL—1968-70 Big Axle
	J 8621	Axle Shaft Bearing Remover Adapter (Used with J 6525-01)	BU.—1961-64: 40-41; 1961-68: 43; 1965-70: 44-45; 1968-70: 46-48-49		J 22936	Axle Shaft Bearing Installer (Used with J 8092)	OPEL—1968-70 Big Axle
	J 8853	Axle Shaft Bearing & Retainer Ring Installer (Used with J 6407 Holder)	BU.—1961-64: 40-41 1963: 46-47-48 1961-60: 43 1963-70: 44 F-85—1961-63 OPEL—1968-70 1.5 & 1.9 Liter		J 23119-01	Axle Shaft Bearing Remover	OLDS. VISTA CRUISER—1969-70
	J 8877	Axle Shaft Bearing Remover	OLDS.—1961-67 F-85—1961-67		J 23133	Axle Shaft Bearing Remover	BUICK—SPECIAL SKYLARK SPORTSWAGON— 1969-71
	J 8916	Axle Shaft Bearing Remover	CHEV.—1957-64 CHEVY II—1962-64 CORVAIR—1960-64 TEMP.—1961-63		J 23399	Axle Shaft Bearing Plate & Remover	CAD.—1971
	J 9436-01	Axle Bearing & Retainer Ring Installer (Use with J 358-1)	CHEVY II—1962-63		J 23441	Axle Shaft Bearing Remover	OLDS.—1970-71 Small Shaft
	J 9739	Axle Shaft Bearing & Retainer Ring Installer (Used with J 6407 Holder)	BU.—1963-64: 44-47 1963-67: 46-48 1965-70: 45-49 1968: 43-44-45		J 23469	Axle Shaft Bearing Remover	PONT.—1970
	J 21022-02	Axle Shaft Bearing Installer (Used with J 358-1)	TEMP.—1963-70 FIREBIRD—1967-69		J 23507	Axle Shaft Bearing Remover	BU.—1970 Estate Wagon






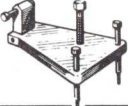

REAR AXLE SHAFT BEARING REMOVERS AND INSTALLERS—(Continued)

	J 23674	Axle Shaft Bearing Remover	OLDS., CHEV. & PONT.—1969-71 Large Shaft		J 23690	Axle Shaft Bearing Installer	BU.—1971 PONT.—1971 CHEV.—1971 8½" & 8⅝" Ring Gear "C" Lock
	J 23689	Axle Shaft Bearing & Seal Remover	BU.—1971 PONT.—1971 CHEV.—1971 8½" & 8⅝" Ring Gear "C" Lock				











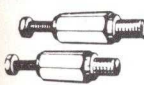








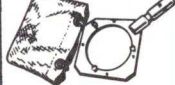
SEAL REMOVERS, INSTALLERS, SPACERS & PROTECTORS

	J 943	Axle Shaft Seal Remover	OLDS.—1937-67 PONT.—thru 1970 TEMP.—1964-68		J 21491	Axle Shaft Bearing & Seal Installer	OLDS. F-85—1968 "C" Axle BU.—1968: 43-44 "C" Axle CHEV.—1964-68
	J 5818	Axle Shaft Seal Installer	OLDS.—All thru 1962 PONT.—1955-63		J 21788	Axle Shaft Seal Installer	AMER. MTRS.— 1965-68: 10-80 (287-290-327-343)
	J 8119	Axle Shaft Seal Remover (Used with J 2619-01 Hammer)	BU.—1968-70 CHEV.—1957-70		J 21796	Axle Shaft Seal Installer	PONT.—1965-70
	J 8610-01	Axle Shaft Seal Installer	OLDS.—1961-63 BU.—1961-63: 40-41-43; 1963: 44-46-47-48		J 21837	Drive Spindle Inner Seal Installer	CORVAIR—1965-68
	J 9430	Axle Shaft Seal Installer	AMER. MTRS.— 1961-64: V-8; 1964: 10 (232)		J 21842	Drive Spindle Outer Seal Installer	CORVAIR—1965-68
	J 9431	Axle Shaft Seal Installer	AMER. MTRS.— 1961-68: 01; 61-64: 10 (195.6); 64-68: 10 (232); 65: 10 (199)		J 21871	Axle Shaft Seal Installer	OLDS.—1965-70
	J 9740-01	Axle Shaft Seal Installer	BU.—1963-64: 44-47 1963-65: 46-48 1965-67: 45-49 TEMP.—1964-65		J 22679	Axle Shaft Seal Installer	OLDS. F-85—1968
	J 21010	Axle Shaft Seal Remover	CAD.—1963-69		J 22680	Axle Shaft Seal Installer	OLDS.—1968 Estate Wagon
	J 21011	Axle Shaft Seal Installer	CAD.—1963-69		J 22749	Axle Shaft Seal Installer	BU.—1967
	J 21051	Axle Shaft Bearing & Seal Installer	PONT.—1964-68		J 22892	Axle Shaft Seal Installer	BU.—1968-70: 46-48-49
	J 21128	Axle Shaft Seal Installer			J 23389	Axle Shaft Seal Protector	CAD.—1970: 697 & 698
	J 21129	Axle Shaft Seal Installer	BU.—1964-67: 40-41-43-44-45; 1964-65: 46-48 OLDS.—1964 TEMP.—1966-70 FIREBIRD—1967-69		J 23693	Axle Shaft Seal Installer	OLDS.—1965-70

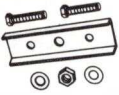


REAR AXLE SHAFT REMOVERS & GAUGES

	J 2092	Axle Shaft End Play Gauge	AMER. MTRS.—All		J 21831	Drive Spindle Remover (2 Req'd)	CORVAIR—1965-68
	J 2498	Axle Shaft Remover	AMER. MTRS.—All		J 21836	Drive Spindle Spacer Selector Gauge	CORVAIR—1965-68
	J 8805-01	Axle Shaft Remover (Used with J 2619-01 Hammer)	OPEL—All thru 1971		J 22602	Drive Spindle Remover	CORVETTE—1963-71
	J 21579	Axle Shaft Remover (Used with J 2619-01 Hammer)	BU.—All CAD.—All CHEV.—All OLDS.—All TEMP.—All PONT.—All				

















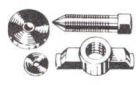



PINION COMPANION SHAFT AND GENERAL

	J 5749	Companion Flange Deflector Installer	CHEV.—1955-64		J 21781	Pinion Holding Wrench	AMER. MTRS.—1965-66: 10-80 (232-287-327)
	J 8362	Pinion Turning Tool	CORVAIR—1960-68 TEMP.—1963		J 22399	Drive Pinion Wrench	OPEL KADETT—thru 1971, 1.1 Liter
	J 8614-01	Companion Flange Holder & Remover	ALL CARS		J 22535	Pinion Holding Tool	OLDS.—1965-71
	J 8614-10	Companion Flange Holder	CHEV.—1971		J 22536	Pinion Driver	OLDS.—1965-71
	J 9458	Companion Flange Installer	CHEVY II—1962-70		J 22575	Companion Flange Nut Socket	AMER. MTRS.—1968: 10-50-80-01 V-8-290
	J 21044-01	Companion Flange Holder Remover Adapters (Set of 2) (Used with J 8614-01)	CAD.—1963-71		J 22932	Pinion Holding Wrench	OPEL—1968-71 1.5 & 1.9 Liter
	J 21581	Pinion Holding Wrench	AMER. MTRS.—1965: 10 (199) 1964-68: 01 1964: 01 (1956)		J 22937-01	Pinion Barrel Spline Remover	OPEL—1968-71 1.5 & 1.9 Liter
	J 21619	Companion Flange Remover Adapter (2 Req'd)	BU.—1964-65: 46-48 1964: 44-47 1965: 45-49 1968-70: 46-48-49		J 22938-01	Pinion Barrel Spline Installer	OPEL—1968-71 1.5 & 1.9 Liter
	J 21697-01	Companion Flange Nut Wrench	OPEL KADETT—thru 1971, 1.1 Liter		J 23311	Pinion Guide Pins (3 Required)	CAD.—1970
	J 21699-01	Pinion Bearing Preload Adjusting Nut Wrench	OPEL KADETT—thru 1971, 1.1 Liter		J 23320	Pinion Assembly Holding Fixture	CAD.—1970

PINION COMPANION SHAFT AND GENERAL—(Continued)








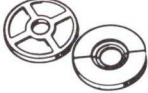
















	J 23324	Pinion Assembly Puller	CAD.—1970		J 23413	Torque Multiplier Link	CAD.—1971
	J 23410	Torque Multiplier	CAD.—1970				

BEARING AND CUP REMOVERS AND INSTALLERS




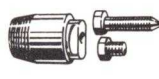
	J 270-14	Rear Pinion Bearing Installer (Used with J 8092 Handle)	ALL—Spicer 23 CHEV.—1964-70 Light Duty		J 7818	Rear Pinion Bearing Installer (Used with J 8092 Handle)	CHEVY II—1962-65 PONT.—1963 AMER. MTRS.— 1961-68: 01 1961-64: 10 (195.6) 1966: 10 (199) OLDS.—1963-64 OPEL—1968-71 1.5 & 1.9 Liter
	J 996	Rear Pinion Bearing Remover (Used with J 358-1 Holder)	CHEV.—1946-50				
	J 3234	Rear Pinion Bearing Cup Installer (Used with J 8092 Handle)	AMER. MTRS.— 1958-65: V-8 1964: 10 (232)		J 8331	Rear Pinion Bearing Remover (Used with J 358-1 Holder)	CORVAIR—1960-65
	J 3243	Front Pinion Bearing Cup & Installer (Use with J 8092)	AMER. MTRS.— 1958-64: V-8 1964: 10 (232)		J 8608	Rear Pinion Cup Installer (Used with J 8092 Handle)	CORVETTE—1963-71 AMER. MTRS.— 1965-68: 10-80 (232-287-327) BU.—1961-63: 40-41-43 1968 "C" Axle 43-44 CHEV.—1964-70 Heavy Duty OLDS.—1961-71
	J 5590	Rear Pinion Bearing Installer	CHEV.—1964-70 Light Duty				
	J 6197	Front Pinion Bearing Cup Installer (Used with J 8092 Handle)	CAD.—1970 BU.—1961-62: 44-46-47-48 1968-70: 46-48-49 OLDS.—1957-64 PONT.—1957-64 TEMP.—1964-70		J 8609	Rear Pinion Bearing Cone Installer (Used with J 6407)	OLDS.—1961-71 BU.—1961-63: 40-41-43 1968-70: 43-44 "C" Axle
	J 6377-01	Rear Pinion Bearing Installer (Used with J 6407 Handle)	BU.—1961-70 Upper Series 1968-70: 43-44-45		J 8611-01	Front Pinion Cup Installer (Used with J 8092 Handle)	F-85—1961-68 PONT.—1965-70 AMER. MTRS.— 1965-68: 10-80 (232-287-327) BU.—1961-65: 40-41-43; 1964: 44-46 1965: 47-48; 1968-70 "C" Axle 43-44 OLDS.—1965-71 OPEL—1968-69 1.5 & 1.9 Liter CAD.—1970
	J 6547	Rear Pinion Bearing Installer (Used with J 6407 Holder)	OLDS.—1957-65 PONT.—1959-70				
	J 7028	Rear Pinion Bearing Remover (Used with J 358-1 Holder)	CHEV.—1957-70 CORVAIR—1960-65		J 8612	Rear Pinion Bearing Remover	F-85—1961-68 BU.—1961-63: 40-41-43; 1968-70 "C" Axle 43-44
	J 7137	Front Pinion Bearing Cup Installer	CORVETTE—1968 1963-71 Heavy Duty		J 8855	Front & Rear Pinion Bearing Cup Remover	TEMP.—1961-65
	J 7817	Front Pinion Bearing Installer (Used with J 8092 Handle)	BU.—1964: 40-41 1964-70: 43-44-45 CHEV.—1962-70 Light Duty OLDS.—1964-65 AMER. MTRS.— 1961-68: 01 1961-64: 10 (195.6) 1965: 10 TEMP.—1964-70		J 8894	Rear Pinion Bearing Installer (Use with J 8092 Handle)	TEMP.—1961-63
					J 8898	Rear Pinion Bearing Cup Installer (Used with J 8092 Handle)	TEMP.—1961-63

PINION
















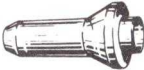



BEARING AND CUP REMOVERS AND INSTALLERS—(Continued)

	J 9349	Rear Pinion Bearing Cup Remover (Use with J 8592 Handle)	AMER. MTRS.— 1961-68: 01 1961-64: 10 (195.6) 1965: 10 (199)		J 21493-01	Rear Pinion Bearing Remover	BU.—1964-70: 40-41-43-44 OLDS.—1964-68 Lower Series TEMP.—1964-70
	J 9350	Rear Pinion Bearing Cup Remover (Use with J 8592 Handle)	AMER. MTRS.— 1961-64: V-8 1964: 10 (232)		J 21692	Front Pinion Bearing Cup Installer (Use with J 8092 Handle)	OPEL KADETT— thru 1970, 1.1 Liter
	J 9351	Front Pinion Bearing Cup Remover (Use with J 8592 Handle)	AMER. MTRS.— 1961-68: 01 1961-64: 10 (195.6) 1965: 10 (199)		J 21693	Rear Pinion Bearing Cup Installer (Use with J 8092 Handle)	OPEL KADETT— thru 1970, 1.1 Liter
	J 9352	Front Pinion Bearing Cup Remover (Use with J 8592 Handle)	AMER. MTRS.— 1961-64: V-8 1964: 10 (232)		J 21694	Pinion Bearing Cup Remover & Installer (Used with J 358-1)	OPEL KADETT— thru 1970, 1.1 Liter
	J 9745	Rear Pinion Bearing Cup Installer (Used with J 8092 Handle)	BU.—1963-67: 46-48 1963-64: 44-47 1968-70: 43-44-45-49 OLDS.—1963-71 PONT.—1965-70		J 21786	Rear Pinion Bearing Cup Remover (Use with J 8092)	AMER. MTRS.— 1965-68: 10-80 (232-287-327)
	J 9746	Rear Pinion Bearing Remover	BU.—1963-70: 46-48 1963-64: 44-47 1965-70: 45-49 PONT.—1963-70 OLDS.—Upper Series 1963-71		J 21787	Front Pinion Bearing Cup Remover (Use with J 8092)	AMER. MTRS.— 1965-68: 10-80 (232-287-327)
	J 9765	Rear Pinion Bearing Cup Remover (Used with J 8092)	PONT.—1965		J 22734	Rear Pinion Bearing Remover (Used with J 6407)	CHEV.—1965-70 Heavy Duty
	J 9771	Rear Pinion Bearing Remover (Used with J 358-1)	CHEV.—1965 with HD Axle CORVETTE—1963-71		J 22912	Rear Pinion Bearing Remover	CHEV.—Vega 2300 OPEL—thru 1970
	J 9772	Rear Pinion Bearing Cup Installer (Used with J 358-1)	CHEV.—1965-70 with HD Axle CORVETTE—1963-71		J 23301	Rear Pinion Bearing Remover	CHEV.—1968-70 Light Duty
	J 21022-02	Front Pinion Bearing Installer (Used with J 6407 Holder)	OLDS.—1967-70 TEMP.—1964-70 FIREBIRD—1967-69 BU.—1964: 40-41 1964-70: 43-44		J 23314	Rear Pinion Bearing Installer	CAD.—1970
	J 21023	Front Pinion Bearing Remover (Use with J 6407)	TEMP.—1963		J 23321	Inner & Outer Bearing Cup Remover (Use with J 8092 Handle)	CAD.—1970 1971—Inner Only
	J 21037	Front Pinion Bearing Cup Installer (Used with J 8092)	TEMP.—1963		J 23671	Outer Pinion Bearing Cup Remover (Use with J 8092 Handle)	CAD.—late 1970 & 71








SEAL REMOVERS AND INSTALLERS

	J 5395-01	Pinion Oil Seal Installer	OLDS.—1953-64 PONT.—1957-63		J 8448	Pinion Oil Seal Installer	CORVAIR—1960-67
	J 8340-01	Pinion Adjusting Sleeve Seal Installer	CORVAIR—with Automatic Trans. TEMP.—1961-63 21 Series		J 9233	Pinion Oil Seal Remover	AMER. MTRS.— 1967-71

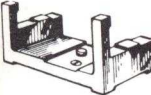
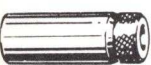

PINION SEAL REMOVERS AND INSTALLERS—(Continued)

	J 9347	Pinion Oil Seal Protector	AMER. MTRS.— 1961-68: 01		J 21698	Pinion Oil Seal Installer	OPEL KADETT— thru 1971
	J 9348	Pinion Oil Seal Installer	AMER. MTRS.— 1961-68: 01		J 22362	Pinion Oil Seal Aligning Tool	AMER. MTRS.— 1966: 10-50-80
	J 21005-01	Pinion Oil Seal Installer	BU.—1963-70: 46-48 1962-64: 44-47 1965-70: 45-49		J 22388	Pinion Oil Seal Installer	BU.—1971 CHEV.—1971 OLDS.—1966-71 PONT.—1971
	J 21024	Pinion Oil Seal Installer (Used with J 8092)	TEMP.—1963		J 22661	Pinion Oil Seal Installer	AMER. MTRS.— 1967-69: 10-50-80-01 V-8
	J 21072	Pinion Oil Seal Protector	TEMP.—1963		J 22804-1	Pinion Oil Seal Spacer	PONT.—1970 "C" Axle CHEV.—1968-70 Heavy Duty OLDS.—43-44 Series BU.—1968-70 "C" Axle
	J 21113	Pinion Oil Seal Installer	CAD.—1963-69		J 22804-2	Pinion Oil Seal Spacer	CHEV.—1968-70 Light Duty Pont. F. B.—1970
	J 21128	Pinion Oil Seal Installer	TEMP.—1964-65 BU.—1965-71		J 22836	Pinion Oil Seal Installer	CHEV.—1968-70 OLDS.—1968 F-85—"C" Axle PONT.—1970 "C" Axle
	J 21197	Pinion Oil Seal Installer	TEMP.—1963		J 22931	Pinion Oil Seal Installer	OPEL—1968-71 1.5 & 1.9 Liter
	J 21285-01	Pinion Oil Seal Installer	OLDS.—1963-67 PONT.—1963-70 TEMP.—1966-70		J 23318	Pinion Oil Seal Installer	CAD.—1970-71
	J 21468	Pinion Oil Seal Installer	CHEV.—1964-68 Light Duty				

PINION**SETTING GAUGES—American Motors Pinion Setting Gauge Chart ***

		1959 thru 1964	1965	1966	1967	1968	1969 thru 1971
	J 5223-4 Shaft	X	X	X	X	X	X
	J 5223-5 Disc—2 Req.	10-80					
	J 5223-14 Bar Screw	X	X	X	X	X	X
	J 5223-20 Gauge Block Assy.	X	X	X	X	X	X
	J 5223-23 Disc—2 Req.		10-50-80	10-50-80	10-50-80	V-8	V-8
	J 5223-24 Bar		10-50-80	10-50-80	10-50-80	X	X
	J 6381-2 Disc—2 Req.	X	01	01	01	01	01

SETTING GAUGES—Buick Pinion Gauge Chart **

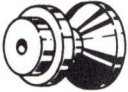












		1964 Upper Series	1965 Upper Series	1966 Upper Series	1967 Upper Series	1968 Upper & Lower Series	1969 Upper & Lower Series	1970 Upper & Lower Series	1971 Upper & Lower Series
	J 5647-9 Gauge Block Assy.	X	X	X	X	X	X	X	X
	J 5647-34 Adapter	X	X						
	J 5647-35 Adapter	X	X						

*For complete tool to service all American Motors Axles order Part No. J 5223-03.

**For complete tool to service all Buick Upper Series axles prior to 1968 and all Buick Standard Axles through 1970 order Part Number J 5647-06.

(Continued)







PINION SETTING GAUGES—Buick Pinion Gauge Setting Chart—(Continued)**

		1964 Upper Series	1965 Upper Series	1966 Upper Series	1967 Upper Series	1968 Upper & Lower Series	1969 Upper & Lower Series	1970 Upper & Lower Series	1971 Upper & Lower Series
	J 5647-36 Gauge Plate	X	X	X	X	X	X	X	
	J 5647-37 Pilot	X	X	X	X	X	X	X	X
	J 5647-38 Gauge Assy.	X	X	X	X	X	X	X	X
	J 5647-40 Disc—1 Req.			X					X
	J 5647-41 Disc—1 Req.			X	X	X	X	X	X
	J 5647-42 Disc—1 Req.			X	X	X	X	X	
	J 5647-44 Gauge Plate					X	X	X	
	J 5647-45 Gauge Plate								X
	J 5647-46 Disc—1 Req.								X
	J 5647-47 Gauge Plate								X
	J 8619-10 Disc—1 Req.					X	X	X	X
	J 8619-12 Pilot Washer							X	
	J 8619-13 Screw	X	X	X	X	X	X	X	X







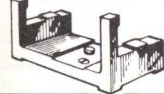






**For complete tool to service all Buick Upper Series axles prior to 1968 and all Buick Standard Axles through 1971 order Part Number J 5647-06.

PINION

SETTING GAUGES—Buick Lower Series Pinion Gauge Chart*

		1964	1965	1966	1967	1968 thru 1970
	J 8619-1 Body	X	X	X	X	See J 5647-06 on Page 67 for 1968 thru 1970 Regular Buick Axle Pinion Setting
	J 8619-2 Gauge Block	X	X	X	X	
	J 8619-10 Disc	X 2 Req.	X 2 Req.	X 2 Req.	X 2 Req.	
	J 8619-11 Gauge Plate	X	X	X	X	
	J 8619-12 Washer	X	X	X	X	
	J 8619-13 Screw	X	X	X	X	

SETTING GAUGES—Buick Lower Series Pinion
Gauge Chart (1968-70)—For "C" Axle Only**SETTING GAUGE—Opel Kadett Pinion Gauge
Setting Chart***


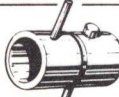





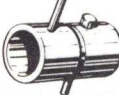




		1968-70			ALL 1.1 Liter Thru-1971	1968-71 1.5 & 1.9 Liter
	J 5647-37 Pilot	X		J 21691-1 Body	X	X
	J 5647-41 Disc	X		J 21691-2 Gauge Assy.	X	X
	J 8619-1 Body	X		J 21691-4 Gauge Plate		X
	J 8619-2 Gauge Block Assembly	X		J 21691-5 Pilot Washer		X
	J 8619-13 Screw	X		J 21691-6 Body		X
	J 8619-14 Gauge Plate	X		J 21691-7 Hardware Kit		X
	J 8619-15 Disc	X				

*For complete tool to service all regular Buick Lower Series Axles 1964 thru 1967 order Part Number J 8619-03.

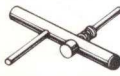



**For complete tool to service all Lower Series "C" Axles order individual pieces as shown in chart.

***For complete tool to service all Opel Kadett Axles order Part Number J 21691-01.

PINION**SETTING GAUGES—Chevrolet Pinion Gauge Setting Chart ***

		Chevrolet			Corvair All	½ Ton Truck		Chevy Van	Cor- vette	Chevy II		Chevelle		Camaro	
		1955-64	1965-70	1971	1960-69	1956-62	1963-71	1964-71	1963-71	1962-63	1964-71	1964	1965-71	1967-70	1971
	J 6266-5 Gauge Plate	X			X	X			X						
	J 6266-9 Body	X			X	X									
	J 6266-15 Gauge Spacer					X									
	J 6266-17 Stud	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 6266-18 Cylinder Adapter				X										
	J 6266-19 Gauge Assembly				X										
	J 6266-25 Adapter	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	J 6266-27 Body		X	X			X	X	X	X	X	X	X	X	X
	J 6266-31 Barrel Adapter 2 Req.		HD	HD			X	HD	X		HD		HD	HD	HD
	J 6266-52 Gauge Plate		X				X	X			X	X	X	X	
	J 6266-53 Gauge Plate		HD						X		HD	HD			HD
	J 6266-54 Gauge Plate			HD											

SETTING GAUGE—Chevrolet Vega 2300 Pinion Setting Gauge Chart **


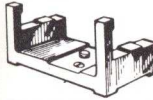




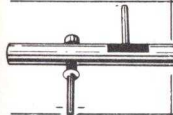







		VEGA 2300			VEGA 2300
	J 23597-1 Body & Pin Assembly	X		J 23597-4 Disc (2 Req'd)	X
	J 23597-3 Gauge Plate	X		J 23597-5 Pilot	X

*For complete tool to service all Chevrolet Axles order Part Number J 6266-07.

**For complete tool to service Chevrolet Vega Axles order Part Number J 23597

PINION




SETTING GAUGES—Oldsmobile Pinion Setting Gauge Chart *

		1964	1965	1966	1967	1968-1969	1970	1971
	J 8619-1 Body	F-85						
	J 8619-2 Gauge Block	F-85						
	J 8619-10 Disc—2 Req.	Jetstar, F-85	Jetstar, F-85	Jetstar, F-85	F-85	F-85	Cutlass Olds	Cutlass Olds
	J 8619-11 Gauge Plate	F-85						
	J 8619-12 Washer	F-85	Olds., F-85	Olds., F-85	Olds., F-85	Olds., F-85	Cutlass Olds	Cutlass Olds
	J 8619-13 Screw	F-85	Olds., F-85	Olds., F-85	Olds., F-85	Olds., F-85	Cutlass Olds	Cutlass Olds
	J 21777-1 Body		Olds., F-85	All	All	All	All	All
	J 21777-2 Gauge Plate		Olds., F-85	Early Olds., F-85				
	J 21777-3 Disc		Olds.	Olds.	Olds.	Olds., F-85	Olds.	Olds.
	J 21777-8 Pilot Washer		Olds.	Olds.	Olds.	Olds.	Olds.	Olds.
	J 21777-10			Toronado	Toronado	Toronado	Toronado	Toronado
	J 21777-11 Disc			Toronado	Toronado			
	J 21777-12 Disc			Toronado	Toronado			
	J 21777-13 Screw			Toronado	Toronado	Toronado		

*For complete tool to service all 1965-71 Oldsmobile Axles order Part Number J 21777-200.






(Continued)

PINION**SETTING GAUGE—Oldsmobile Pinion Setting Gauge Chart *—(Continued)**


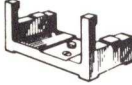


		1964	1965	1966	1967	1968-1969	1970	1971
	J 21777-21 Gauge Plate			Late Olds. F-85	Olds., F-85 Type "O"		Cutlass Olds	Cutlass Olds
	J 21777-22 Disc—2 Req.					Toronado		
	J 21777-23 Gauge Plate					F-85, "C" Type		

*For complete tool to service all 1965-71 Oldsmobile Axles order Part Number J 21777-200.

SETTING GAUGE—Pontiac Tempest Pinion Gauge Chart (1970) "C" Type 12 Bolt Axle Only *




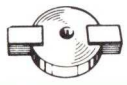


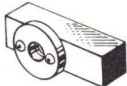
		1970			1970
	J 5647-37 Pilot	X		J 21777-3 Disc (2 Req'd)	X
	J 8619-13 Screw	X		J 21777-23 Plate	X
	J 21777-1 Body	X			

SETTING GAUGE—Pontiac, Pontiac Tempest and Firebird Pinion Setting Gauge Chart *

		1964	1965-67	1968-70	1971
	J 8619-1 Body	Temp.			
	J 8619-2 Gauge Block	Temp.			
	J 8619-10 Disc—2 Req'd	Temp.	Temp.	Temp. F.B.	Non "C" B & O "C" Lock G & K
	J 8619-11 Plate	Temp.			







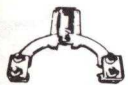





*For complete tool to service all 1965-71 Pontiac Axles order Part Number J 21777-250.

PINION SETTING GAUGE—Pontiac, Pontiac Tempest and Firebird Pinion Setting Gauge Chart *—Cont.











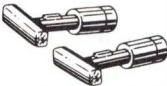
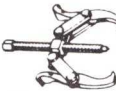


















		1964	1965-67	1968-70	1971
	J 8619-12 Washer	Temp.	Temp., Pont.	Temp. Pont. F.B.	F.B. 8½ Pont. 8½-8⅞
	J 8619-13 Stud	Temp.	Temp., Pont.	Temp. Pont. F.B.	F.B. 8½ Pont. 8½-8⅞
	J 21777-1 Body		Temp., Pont.	Temp. Pont. F.B.	F.B. 8½ Pont. 8½-8⅞
	J 21777-2 Plate		Temp., Pont.	Temp. Pont. F.B.	Pont. 8⅞
	J 21777-3 Disc—2 Req'd		Pont.	Pont.	Pont. 8⅞
	J 21777-8 Pilot Washer		Pont.	Pont.	
	J 21777-26 Plate				Non "C" B & O "C" Lock G & K

*For complete tool to service all 1965-71 Pontiac Axles order Part Number J 21777-250.

DIFFERENTIAL TOOLS

	J 270-22	Side Bearing Installer (Used with J 8092)	ALL—Spicer 23, 44 Axles		J 5292-01	Side Bearing Installer—Left	BU.—1963-65: 44-49
	J 972	Adjusting Nut Wrench	CORVAIR—1960-64 OLDS.—1957-60 PONT.—thru 1965 F-85—1961-65		J 6552-02	Side Bearing Cup Remover	BU.—1963-65: 44-49
	J 2100-01	Side Bearing Installer	AMER. MTRS.—1955-67: 01 1955-64: 01 (195.6) 1965-67: 10 (199)		J 8342	Pinion Differential Bearing Adjusting Sleeve Wrench	CORVAIR—1960-68
	J 3289-01	Differential Carrier Holding Fixture (Used with J 3289-20 Base Assembly)	CORVETTE—thru 1971 OLDS.—1960-68		J 8615	Side Bearing Installer Adapter (Used with J 22588-02)	F-85—1961-63 BU.—1961-63: 40-41-43 OLDS.—Upper Series 1965
	J 3289-20	Base Assembly (Part of J 3289-01)	Base Assembly for use with J 21533, J 3289-01, J 6117, J 6638, J 7009-01, J 7896-01, J 8763-02		J 8622	Axle Housing Holding Fixture Adapter (Use with J 3289-01)	SPEC.—1961 F-85—1961-68
	J 5231-01	Axle Housing Spreader	CHEV., AMER. MTRS.—Spicer 44 Axle		J 8901	Side Bearing Installer—Right (Used with J 8092)	PONT.—1965-68 TEMP.—1961-63



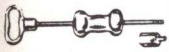










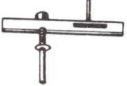
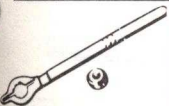

DIFFERENTIAL TOOLS—(Continued)

	J 8902	Side Bearing Adjusting Nut Wrench	TEMP.—1961-63		J 22166	Side Bearing Installer (Used with J 8092)	BU.—1966-67: 46-48-49
	J 8903	Side Bearing Pre-load & Backlash Checking Tool	TEMP.—1961-63		J 22175	Side Bearing Installer	BU.—1961-63: 40-41-43 CORVAIR—Late 1964-68 OLDS.—1961-65
	J 8980	Side Bearing Installer—Right (Also Speedo Gear Installer)	TEMP.—1964-68		J 22311	Positraction Spring Compressor	CORVETTE—1966-71 Eaton Unit
	J 9537-02	Side Bearing Installer (Used with J 8092)	BU.—1964: 40-41-43 1965-67: 43-44 CHEV.—1964-70 Light Duty		J 22539	Side Bearing Installer (Used with J 8092)	Posi-Traction: Left Side
	J 9742	Side Bearing Cup Installer (Used with J 8092)	BU.—1963-64: 44-47 1963-65: 46-48 1965: 45-49		J 22584	Ring Gear & Case Bearing Installer (Used with J 21322-01)	OLDS.—Late 1966-67
	J 9743	Side Bearing Supports (pair)	BU.—1963-65: 46-48 1963-64: 44-47 1965: 45-49		J 22588-02	Side Bearing Remover	BU.—All OPEL—All
	J 9744	Side Bearing Support Remover	BU.—1963-65: 46-48 1963-64: 44-47 1965: 45-49		J 22761	Side Bearing Installer (Used with J 8092)	OLDS.—1967-71 BU.—1967: 44-45 Both Sides; 1968-70: Right Side Only 1971: B, C, K, P axles
	J 21028	Side Bearing Installer—Left (Also Speedo Gear Installer)	TEMP.—1964-68		J 22771	Side Bearing Installer (Used with J 8092)	BU.—1966—Late 1967-68: 46-48-49 1968-70: 43-44-45 Left Side Only
	J 21322-01	Ring Gear & Case Remover (Used with 5/8" x 11 Slide Hammer) (See J 22584)	BU.—1964: 40-41 1964-65: 43-44 1968-71: 43-44-45 OLDS.—1961-71 PONT.—thru 1971		J 22779	Side Bearing Preload and Backlash Gauge	CHEV.—1968-69
	J 21683	Side Bearing Puller Adapter (Used with J 22588-02)	OPEL KADETT—thru 1971		J 22888	Side Bearing Remover	ALL
	J 21695	Side Bearing Installer (Used with J 8092)	OPEL KADETT—thru 1971		J 22888-9	Side Bearing Remover Adapter Plugs	CHEV.—All PONT.—All OLDS.—All AMER. MTRS.—All
	J 21752	Positraction Coil Spring Compressor	CHEV.—1964-67 Dana CORVETTE—1963-67 Dana		J 22888-01	Side Bearing Remover Adapter Plugs (Consists of J 22888 & J 22888-9)	CHEV.—All PONT.—All OLDS.—All AMER. MTRS.—All
	J 21784	Side Bearing Installer	AMER. MTRS.—1965-68: 10-80 (232-287-327)		J 22907	Side Bearing Remover	OLDS.—F-85—1967
	J 21991	Carrier Bushing Remover	CORVETTE—1965-70 CHEV.—1965-70 CHEVELLE—1965-70 CHEVY II—1965-70		J 22919	Side Bearing Installer	OPEL—1968-71 1.5 & 1.9 Liter
	J 22042	Left Hand Bolt and Sleeve Set (Use with J 21322-01)	OLDS.—1965-67 PONT.—Late 1965-68		J 22939	Side Bearing Puller Leg (Used with J 22588-02)	OPEL—All thru 1971











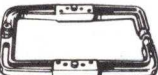


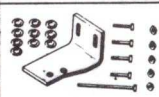
















DIFFERENTIAL TOOLS—continued

	J 22962	Left-Hand Bolts for Differential Case Remover (Used with J 21322-01)	BU.—1968: 43-44-45		J 23372	Case Holding Fixture	CAD.—1970-71
	J 23310	Thrust Washer Aligning Pin	CAD.—1970-71		J 23398	Adjusting Nut Spanner	CAD.—1970-71
	J 23316	Ring Gear Guide Pin (3 Required)	CAD.—1970-71		J 23406	Cone Remover Adapter	CAD.—1970-71
	J 23317	Differential Bearing Cone Installer	CAD.—1970-71		J 23409	Dial Indicator Extension Set	CAD.—1970-71
	J 23322	Straddle Bearing Installer	CAD.—1970-71		J 23598	Side Bearing Remover Plug	VEGA 2300
	J 23323	Straddle Bearing Remover	CAD.—1970-71		J 23610	Side Bearing Installer	VEGA 2300




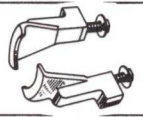



FINAL DRIVE DIFFERENTIAL TOOLS

	J 943	Oil Seal Remover	TORON.—1966-69 ELDOR.—thru 1971		J 8753	Timing Case Cover Seal Installer (Used with J 8092)	TORON.—1966-71
	J 2619-01	Slide Hammer 5/8" x 18 Thread with 1/2" x 13 Adapter	TORON.—1966-71 ELDOR.—thru 1971		J 9745	Rear Pinion Race Installer (Used with J 8092)	TORON.—1966-71
	J 3289-01	Holding Fixtures (Used with J 22296)	TORON.—1966-71 ELDOR.—thru 1971		J 9746	Bearing Remover	TORON.—1966-71
	J 8001	Dial Indicator	TORON.—1966-71 ELDOR.—thru 1971		J 21022-02	Front Pinion Bearing Installer (Used with J 6407)	TORON.—1966-71
	J 8092	Driver Handle (Threaded type)	TORON.—1966-71 ELDOR.—thru 1971		J 21470	Output Shaft Bearing Installer	TORON.—1966-67
	J 8433	Puller (See J 22227, J 22229, J 23345)	TORON.—1966-71 ELDOR.—thru 1971		J 21579	Axle Shaft Remover (Used as Pinion Bearing Preload Tool) (Used with J 21777-13)	TORON.—1966-71 ELDOR.—thru 1971
	J 8458	Front Pinion Outer Race Installer	TORON.—1966-71 ELDOR.—thru 1971		J 21777-1	Pinion Setting Gauge Body & Pin Assembly	TORON.—1966-71
	J 8614-01	Companion Flange Holder & Remover	TORON.—1966-71 ELDOR.—thru 1971		J 21777-10	Pinion Setting Gauge Plate (Used with J 21777-1)	TORON.—1966-71


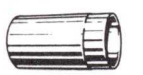







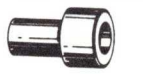



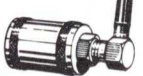

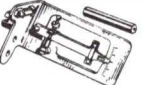

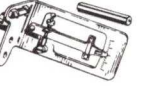




FINAL DRIVE DIFFERENTIAL TOOLS—continued

	J 21777-11	Pinion Setting Gauge Disc (Used with J 21777-1)	TORON.—1966-67		J 22230	Differential Side Bearing Installer (Right) (Used with J 8092)	TORON.—1966-71
	J 21777-12	Pinion Setting Gauge Disc (Used with J 21777-1)	TORON.—1966-67		J 22231	Differential Side Bearing Installer (Right) (Used with J 8092)	TORON.—1966-71
	J 21777-13	Pinion Setting Gauge Screw (Used with J 21579)	TORON.—1966-71		J 22236	Pinion Oil Seal Protector	TORON.—1966-71 ELDOR.—1967-71
	J 21777-22	Pinion Setting Gauge Disc	TORON.—1968-71		J 22237	Hub Remover Spacer Set	TORON.—1969
	J 22193	C.V. Joint Protector Support Blocks	TORON.—1966-67		J 22247	C.V. Joint End Plate & Dust Boot Retainer Installer	TORON.—1966-67
	J 22196-01	Axle Housing Spreader	TORON.—1966-71		J 22293	Spanner Wrench	TORON.—1966-67
	J 22198	Axle Housing Seal Installer (Right) (Used with J 8092)	TORON.—1966-71 ELDOR.—1967-71		J 22296	Differential Adapter Plate (with Screws) (Used with J 3289-01)	TORON.—1966-71
	J 22199	Axle Housing Seal Installer (Left) (Used with J 8092-01 Handle)	TORON.—1966-71 ELDOR.—1967-71		J 22299	Differential Side Bearing Removing Adapters (Used with J 9746 & J 8433)	TORON.—1966-71
	J 22201	Front Pinion Outer Race Remover (Used with J2619-01 Slide Hammer)	TORON.—1966-71		J 22314	Front Pinion Outer Race Installing Guide (Used with J 8092 & J 8458 Installer)	TORON.—1966-71
	J 22208	Pinion Assembly Remover & Torque Wrench Adapter	TORON.—1966-71		J 22587	Pinion Bearing Preload Gauge Set	TORON.—1966-71
	J 22209	Rear Pinion Bearing Installer (Used with J 6407)	TORON.—1966-71		J 22595	Ring Gear Installing Studs	TORON.—1966-71
	J 22210	Planet Gear Loading Tool	TORON.—1966-67		J 22608	Side Bearing Shim Remover	TORON.—1966-71
	J 22212	Pinion Seal Installer	TORON.—1966-71 ELDOR.—1967-71		J 22609	Output Shaft Bearing & Sling Installer	TORON.—1966-67 ELDOR.—1967
	J 22227	Front Pinion Bearing Remover (Used with J 8433)	TORON.—1966-71		J 22716	Clamp Tightening Wrench (Band-it Type Clamp)	TORON.—1966-71 ELDOR.—1967-71
	J 22229	Differential Side Bearing Remover (Left)	TORON.—1966-71		J 22756	Differential Side Bearing Remover with Pilot (Used with J 8433)	TORON.—1968-71











FINAL DRIVE DIFFERENTIAL TOOLS—continued

	J 22760	Right Hand Output Shaft Seal Installer (Used with J 8092)	TORON.—1968-71 ELDOR.—1968-71		J 22828	Output Shaft Bearing & Slinger Installer	CAD.—1968-69 ELDOR.—1968-69 TORON.—1968-69
	J 22811	Differential Side Bearing Installer (Left side) (Used with J 8092)	TORON.—1968-71		J 23345	Front Hub Bearing Puller	ELDOR.—1969-71
	J 22812	Differential Side Bearing Installer (Right Side) (Used with J 8092)	TORON.—1968-71		J 23692	Spindle Remover Adapter	ELDOR.—1971 TORON.—1971
	J 22822	Carrier Holder	TORON.—1968-71				






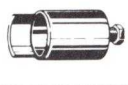




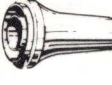
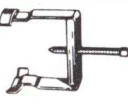
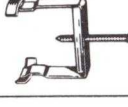
PROPELLER SHAFT

	J 4174	Universal Joint Bearing Cap Remover	CAD.—thru 1969 OLDS.—1949-67 PONT.—1960-67		J 21548	'U' Joint Trunion Seal Installer	CHEV.—1964-65
	J 8853	Bearing Cap Remover Adapter (Used with J 9522)	BU.—thru 1971		J 21556	'U' Joint Trunion Seal Installer	CHEV.—1964-65
	J 8905-01	Propeller Shaft Alignment Set	CAD.—1959-63		J 21696	Torque Tube Bearing & Deflector Installer	OPEL—thru 1971
	J 8973-04	Propeller Shaft Alignment Set	BU.—1961-64: 40-41 1961-68: 43-43-48-44 1965-69: 45-49		J 21925	Propeller Shaft Coupling Remover	AMER. MTRS.— 1965-66: 10-80 (232)
	J 9522	Propeller Shaft Service Tool Set	BU.—All Series thru 1970		J 21980	Propeller Shaft Coupling Installer	AMER. MTRS.— 1965-66: 10-80 (232)
	J 9522-3	Spider Press Adapter for C.U. Joint (Part of J 9522)	BU.—1971 OLDS.—1971 CAD.—1971 PONT.—1971		J 22271	Propeller Shaft Center Ball Seal Installer	BU.—1966-68: 45-49
	J 9738	Propeller Shaft Seal Installer	BUICK		J 22513	C.V. Lube (U-Joint) Adapter	BU.—1966-70: Series 45-46-48
	J 21007	Center Bearing Installer	BU.—1961-64: 40-41 1961-65: 43-44 1965-70: 45-49		J 22910	Power Train Inclinator	PONT.—1968-71
	J 21009	Propeller Shaft Center Bearing Lock Nut Wrench	BU.—1961-70: 43-44-46-48-49 1961-64: 40-41-47 1965: 45-49 CAD.—1958-68 PONT.—1958-63		J 22910-1	Power Train Inclinator	AMER. MTRS.— 6601 (V-8); All 1967-71
	J 21135-01	Propeller Shaft Coupling Remover	AMER. MTRS.— 1963-64: 10 (195.6) 1965: 10 (199)		J 23498	Universal Joint Inclinator	BU.—thru 1971
	J 21136	Propeller Shaft Coupling Installer	AMER. MTRS.— 1963-64: 10 (195.6) 1965: 10 (199)		J 23694	Propeller Shaft Seal Installer	BU.—1971 OLDS.—1971 PONT.—1971



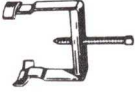







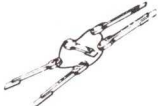

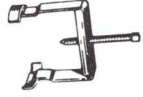


STEERING STEERING WHEEL PULLERS AND TENSION SCALES

	J 544	Steering Gear Tension Scale (0-4#)	ALL CARS		J 5178	Steering Wheel Tension Scale 0-15#	ALL CARS
	J 1859-03	Steering Wheel Puller	CAD.—All		J 5290	Steering Wheel Puller	AM. MTRS.—All:01 1957-62:10-80
	J 2927-01	Steering Wheel Puller	CHEV.—1964-71 CHEVY II—1962-71 CORVAIR—1960-71		J 8129	Steering Wheel Tension Scale 0-15#	ALL CARS
	J 3044-01	Steering Wheel Puller	PONT.—All		J 21232-01	Steering Wheel Puller	AMER. MTRS.— 1963-69: 10-80 1964-69:01
	J 3274	Steering Wheel Puller	BU.—All		J 21686	Steering Wheel Puller	OPEL KADETT— thru 1971










CONVENTIONAL STEERING COLUMN

	J 8992	Shift Linkage Locating Fixture	F-85—1961-63 BU.—1961-63		J 21854-01	Pivot Pin Remover (Tilt & Tel.) (See E.A.C.)	AMER. MTRS.— 1964-66 CHEV.—1966 BU.—1964-66 CAD.—1965-66 OLDS.—1964-66 PONT.—1964-66 FORD—1965-67
	J 21180	Turn Signal Cover Remover & Shift Tube Remover (Tilt)	AMER. MTRS.— 1964-66: 10-80 BU.—1963-64:47 1963-65:44-46-48 1965-45: 1966:49 CAD.—1963-64 OLDS.—1963-66 PONT.—1963-66 FORD—1965-67		J 21970	Steering Column Holding Fixture (Tilt & Tel. Std.)	AMER. MTRS.— 1964-66 CAD.—1964-66 BU.—1964-66 OLDS.—1965-66 PONT.—1964-66
	J 21181-01	Spring Installer (Tilt)	AMER. MTRS.— 1964-66:10-80 BU.—1963-64:47 1963-65:44-46-48 1965-45: 1966:49 CAD.—1963-64 OLDS.—1963-66 PONT.—1963-66 FORD—1965-67		J 22191	Spring Compressor (Tilt & Tel.)	CAD.—1965-69 OLDS.—1966-69 CHEV.—1966
	J 21347	Turn Signal & Shifter Tube Remover (Tilt)	CHEV.—1963-65		J 22192	Upper Cover Remover & Installer (Tilt & Tel.)	OLDS.—1966
	J 21352	Wheel Cover Installer (Tilt)	CAD.—1963-64		J 22207	Shift Tube Remover (Tilt & Tel.)	OLDS.—1966
	J 21853-01	Upper Cover Installer (Tilt & Tilt & Tel.) (See E.A.C.)	AMER. MTRS.— 1964-66 BU.—1964-66 CAD.—1965-66 CHEV.—1964-66 FORD—1965-67 OLDS.—1964-66 PONT.—1964-66		J 22598-01	Upper Cover Remover (Use with J 6125) (See E.A.C.)	CAD.—1965-66
					J 22708	Directional Signal Cover Remover (Tilt & Tilt & Tel.) (See E.A.C.)	AMER. MTRS.— 1964-66:10-50-80 CHEV.—1963-66 FORD—1965-67
















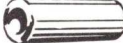
ENERGY ABSORBING STEERING COLUMN

	J 21853-01	Upper Cover Installer (Tilt & Tilt & Tel.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68		J 22573	Steering Column Holding Fixture (All)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68
					J 22598-01	Upper Cover Remover (Use with J 6125) (Tilt & Tilt & Tel.)	CAD.—1967-68 OLDS.—1967-68 PONT.—1967-68 BU.—1967-68
	J 21854-01	Pivot Pin Remover (Tilt & Tilt & Tel.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-78		J 22599	Lock Nut Socket (Tilt)	AMER. MTRS.— 1967-69 BU.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68
	J 22549	Shift Tube Installer (Tilt & Tilt & Tel.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68 CHRYSL.—1967		J 22635	Lock Shoe & Release Lever Pin Remover & Replacer (Tilt & Tilt & Tel.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68
	J 22551	Shift Tube Remover (Tilt & Tilt & Tel.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68 CHRYSL.—1967		J 22686	Upper Bearing Spacer (Tilt & Tilt & Tel.)	BU.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68
	J 22568	Lower Shift Levers Lash Adjuster (Std.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 OLDS.—1967-68 PONT.—1967-68		J 22701	Neutralizer Switch Gauge Set	PONT.—1967-69
	J 22569	Snap Ring Remover & Installer (Std.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68		J 22708	Upper Cover Remover (Tilt)	AMER. MTRS.— 1967-69 CHEV.—1967-68
					J 23056	Neutralizer Switch Gauge Set	TEMP.—1968 FIREBIRD—1968
	J 22572	Shaft Bowl Bearing Installer (Std.)	AMER. MTRS.— 1967-69 BU.—1967-68 CAD.—1967-68 CHEV.—1967-68 OLDS.—1967-68 PONT.—1967-68				




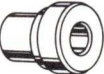

FUNCTION LOCKING ENERGY ABSORBING STEERING COLUMN

	J 21854-01	Pivot Pin Remover (Tilt & Tilt & Tel.)	ALL GM—1969-71 AMER. MTRS.— 1970-71		J 23074	Steering Column Holding Fixture (All)	ALL GM—1969-71 AMFR. MTRS.— 1970-71
	J 22191	Spring Compressor (Tilt & Tel.)	ALL GM—1969-71		J 23131	Upper Steering Lock Plate Compressor (Standard & Tilt Column)	ALL GM—1969-70 AMER. MTRS.—1970
	J 23063	Lock Plate Compressor (Tilt & Tel.)	ALL GM—1969-70				
	J 23072	Shift Tube Remover (Tilt & Tilt & Tel.)	ALL GM—1969-71 AMER. MTRS.— 1970-71		J 23193	Lock Nut Socket (Tilt Column)	ALL GM—1969-70 AMER. MTRS.— 1970-71
	J 23073-01	Shift Tube Installer (Tilt & Tilt & Tel.)	ALL GM—1969-71 AMER. MTRS.— 1970-71		J 23653	Lock Plate Compressor (All)	ALL GM—1971 AMER. MTRS.—1971






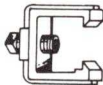





MANUAL & POWER STEERING GEAR

	J 1614	Pitman Bushing Driver	CHEV.—1964-71 Standard Steering CHEVY II—1962 CORVAIR—1962 PONT.—1949-71		J 6278	Pitman Shaft Bearing Remover & Installer	OLDS.—1956-71 CHEV.—1964-71 PONT.—1956-71
	J 5754	Steering Gear Mainshaft Bearing Cup Remover	BU.—1960 PONT.—1955-67 AMER. MTRS.— 1958-67:10-50-80 1968-70 All		J 6657	Pitman Shaft Needle Bearing Remover & Installer	BU.—1961-71 CAD.—1963-71
	J 5755	Steering Shaft Worm Bearing Cup Installer	AMER. MTRS.— 1958-63 BU.—1960 CHEV.—1955-71 Standard Steering CHEVY II—1961-63 CORVAIR—1961-63 PONT.—thru 1971		J 7133	Pitman Shaft Bushing Remover & Installer	AMER. MTRS.— 1968-70 All, 1958-67, 10-50-80
					J 7170	Steering Shaft Bearing Cup Installer	AMER. MTRS.— 1968-70 All, 1958-67, 10-50-80
	J 5787	Pitman Shaft Packing Retainer Protector	AMER. MTRS.— 1958-68 10-80; 1970-71 All BU.—1955-60 CHEV.—1955-61 Standard Steering PONT.—thru 1963		J 7171	Pitman Shaft Seal Installer	AMER. MTRS.— 1968-70 All, 10-50-80
					J 8810	Pitman Shaft Bushing Remover (Use with J 8092)	BU.—1961-71 OLDS.—1961-71
	J 5813	Pitman Shaft Seal Installer	CHEV.—1955-61 Standard Steering PONT.—thru 1965		J 8811	Pitman Shaft Seal & Upper Worm Bearing Installer (Use with J 8092)	BU.—1961-71 OLDS.—1961-71
	J 5822	Steering Gear Mainshaft Bearing Cup Remover (Use with 2619-01)	BU.—1961-63; 44-46 47-48 CHEV.—1955-71		J 8987	Pitman Arm Nut Wrench	BU.—1961 with Power Steering
	J 6219	Steering Gear Pitman Shaft Oil Seal Installer	BU.—All CAD.—All CHEV.—1968-71 SPEC.—All		J 9225	Pitman Shaft Seal Installer	CHEV.—1961








MANUAL & POWER STEERING GEAR—(Continued)

	J 9226	Pitman Shaft Bushing Remover & Installer	CHEVY II—1962-63		J 22407	Pitman Shaft Bearing Installer (variable ratio)	OLDS.—1969-71 CAD.—1966-71 CHEV.—1969-71 PONT.—1969-71
	J 9540	Pitman Shaft Seal Installer	BU.—thru 1971		J 23645	Pitman Shaft Needle Bearing Installer (Use with J 7079-2)	VEGA 2300
	J 21712	Steering Gear Pinion Mounting Sleeve	OPEL KADETT—thru 1971				


























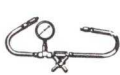


STEERING LINKAGE

	J 3295	Steering Arm Ball Stud Remover	AMER. MTRS.—1959-67: 10-50 1970-71 All BU.—1963: 44-47-48		J 9280	Steering Linkage Grease Gun	CAD.—1961-71
	J 5504	Pitman Arm Puller	OLDS.—thru 1970 BU.—thru 1971		J 9280-5	Suspension Joint Grease Gun Tip (Use with J 9280)	CAD.—1967-71
	J 5566-04	Pitman Arm Puller	AMER. MTRS.—1964-71		J 21687	Relay Rod and Ball Stud Remover	OPEL KADETT—thru 1971
	J 6632	Pitman Arm Puller	CHEV.—1955-71 CHEVY II—1961-71 CORVAIR—1960-71 CAD. ELDORADO—1968-71		J 21930	Tie Rod End Puller	CAD.—1961-71
	J 8990-01	Steering Linkage & Ball Joint Puller	CAD.—1961-71		J 22292-01	Linkage Puller	ELDORADO—1967-71 TORONADO—1966-71
	J 9172	Pitman Arm Puller	AMER. MTRS.—1964-71 CAD.—1961-71 PONT.—1958-71				





POWER STEERING

	J 972	Spanner Wrench	CHEV.—1959-68		J 6216	Piston Ring Compressor (3 1/8)	BU.—1956-58 CAD.—1956-58 CHEV.—1955-61 OLDS.—1956-58 PONT.—1956-58
	J 5176-01	Power Steering Checking Gauge 0-2000 lbs. (See J 7141, J 22326)	GM—thru 1971		J 6217	Valve Connector Seat Installer	AMER. MTRS.—1964-71 BU.—All thru 1971 CAD.—All thru 1971 CHEV.—All CHEVY II—1962-71 OLDS.—1957-71 PONT.—1956-71
	J 5188	Valve Cover Seal Installer	ALL—with Saginaw Power Steering Pump				
	J 5440	Pump Shaft Bearing Installer	PONT.—All Roto type pumps		J 6221	Adjuster Plug Bearing Remover & Installer	BU.—1961-71 CAD.—1956-69 AMER. MTRS.—1964-71 PONT.—1956-71


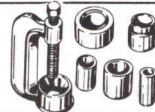
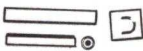












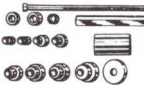



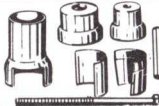








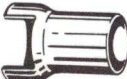
POWER STEERING—(Continued)

	J 6222	Adjuster Plug Seal Protector	BU.—1961-71 CAD.—All thru 1971 CHEV.—1963-71 F-85—1965-67 AMER. MTRS.—1964-70 FORD MERC.—1965-67		J 8818-01	Pump Shaft Seal Installer	CHEV.—1961-63 CHEVY II—1962-63 F-85—1961-63 BU.—1961-63
	J 7141	Adapter for J 5176-01 Power Steering Gauge	PONT.—1958-65 CHEV.—1967-71		J 8841	Pump Shaft Oil Seal Installer	AMER. MTRS.—1960-67 (6 cylinder) W/Thompson Pump
	J 7576	Rack Piston Installer	BU.—1961-71 46-48-49 CHEV.—Truck 1971 PONT.—1959-71 CAD.—1959-71		J 8842	Pump Shaft Oil Seal Remover	AMER. MTRS.—1960-71 (6 cylinder) Thompson Pump; 1965 V-8 Eaton Pump
	J 7624	Bearing Pre-Load Spanner Wrench	BU.—1961-71 CAD.—1959-71 CHEV.—1959-71 OLDS.—1961-71 PONT.—1959-71 AMER. MTRS.—1959-71 FORD MERC.—1965-67		J 8937	Power Steering Ball Seat Remover & Installer	CHEV.—1961-63 CHEVY II—1962-63 PONT.—1962-65
	J 8947	Telfon Seal Installer	BU.—1961-71 CHEV.—1963-71 TEMP.—1964-71 FORD—1965 MERC.—1965		J 9152	Oil Pump Seal Installer	BU. SPEC.—1961-63
	J 7715	Pressure Gauge (2000 lbs.) (Part of J 5176-01)	ALL GM—thru 1971		J 21000	Power Steering Pump Oil Seal Protector	CAD.—1963-66
	J 7728	Pump Shaft Oil Seal Installer	BU.—1961-71 CAD.—1959-71		J 21001	Power Steering Pump Oil Seal Installer	CAD.—1963-66
	J 8524	Bearing Remover & Installer	CHEV.—1960-71		J 21239	Pump Pulley Remover	CHEV.—1967-71
	J 8642	Pump Shaft Seal Protector	AMER. MTRS.—1960-71 All V-8		J 21551	Pitman Shaft Bearing Remover & Installer (Use with J 8092)	AMER. MTRS.—1964-71 All
	J 8646-02	Pump Pulley Remover	AMER. MTRS.—1960-71 (6 cylinder) W/Thompson Pump		J 21552	Rack Piston Arbor	AMER. MTRS.—1964-71 All BU.—1961-71 CAD.—1959-69 PONT.—1959-68 OLDS.—1959-68
	J 8647	Pump Shaft Oil Seal Remover	AMER. MTRS.—1960-61 01-10 W/Thompson Pump		J 21553	Pitman Shaft Seal Installer	AMER. MTRS.—1964-71 All
	J 8648	Pump Shaft Oil Seal Installer	AMER. MTRS.—1960 01-10 W/Thompson Pump		J 21554	Adjuster Plug Seal Installer	AMER. MTRS.—1964-71 All FORD—1965-67 W/Saginaw Gear
	J 8649	Pump Shaft Support	AMER. MTRS.—1960-71 (6 cylinder) W/Thompson Pump		J 21567	Pressure Gauge & Hose Assembly	AMER. MTRS.—1964-71 All
	J 8659	Outlet Valve Conn. Seat Remover	AMER. MTRS.—1960-71 (6 cylinder) W/Thompson Pump		J 21883	Steering Pump Pulley Puller	CAD.—thru 1971

POWER STEERING—(Continued)
















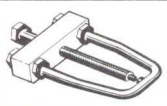







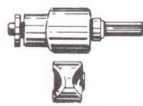






	J 22326	Power Steering Checking Gauge Adapter (Use with J 5176-01)	PONT.—1965-71 TEMP.—1965-71 OLDS.—1967-71 CAD.—thru 1971		J 22670	Power Steering Pump Shaft Seal Installer	CHEV.—1964-71
	J 22616	Power Steering Pump Shaft Seal Protector	CAD.—1967-71 OLDS.—1967-71		J 23452	Power Steering Pump Seal Installer	AMER. MTRS.— 1965-71 Eaton Pump

CONTROL ARMS (FRONT & REAR) AND BALL JOINTS

	J 5680-01	Crow Foot Adapter (1 3/8", 1/2" sq. drive)	CAD.—1968-69		J 9519-01	Ball Joint Remover & Installer	OPEL—thru 1971 CHEV.—1964-71 OLDS.—1964-69 BU.—1963-71 41-43-44-46-47-48-49 PONT.—1967-71
	J 5888	Front Suspension Bushing Installer Set	CHEV.—1964-70 CHEVY II—1964-70 CORVAIR—1964-68		J 9568	Upper Control Arm Bolt Holder	OLDS.—1962-63
	J 6446-01	Ball Joint Remover	OLDS.—1957-60		J 9584	Control Arm Bushing Remover & Installer Set (Use with J 21894)	PONT.—1965-70
	J 6627	Steering Knuckle Spherical Joint Remover	PONT.—1968 TEMP.—1958-68 VAUX.—All		J 9656	Ball Joint Stud Remover (1/16-18 Thd.)	AMER. MTRS.— 1964-71
	J 7052	Upper & Lower Control Arm Bushing Remover & Installer	CHEV.—1958-70 CORVAIR—1960-64 PONT.—1961		J 9669	Special Upper Trunnion Lubricant Gun (Red)	AMER. MTRS.— 1962-64 1965-69:10-50-80
	J 7167-01	Upper Control Arm Spreader	PONT.—1958-70		J 9670	Special Chassis Lubricant Gun (Blue)	AMER. MTRS.— 1962-63 10-80, 1964-70 All
	J 8806-01	Ball Stud Remover	OLDS.—1961-71 Bu.—1961-71 PONT.—1969-71		J 21027	Rear Axle Control Arm Bushing Re- mover & Installer	TEMP.—1963
	J 8999-04	Front Suspension Service Set	CAD.—1961-71		J 21058	Lower Control Arm Bushing Tool Set	AMER. MTRS.— 1970-71 CHEVELLE—1964-70 CHEV.—1964-70 CORVAIR—1964-69 CHEVY II—1964-70
	J 9231-01	Caster Camber Adjusting Wrench (1 3/8", 1/2" sq. drive)	CAD.—1961-67		J 21240	Lower Ball Joint End Play Checking Gauge	BU.—1961-71 AMER. MTRS.— 1970-71
	J 9447	Front Suspension Ratchet Wrench	AMER. MTRS.— 1962-67: 10-80		J 21474-01	Control Arm Bush- ing Service Set	CHEV.—1964-71 OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71
	J 9502-01	Front Upper Control Bushing Remover & Installer Set (In- cludes J 9502-3)	TEMP.—1962-70		*J 21474-1	Rear Upper & Lower Control Arm Spacer	CHEV.—1964-67 PONT.—1964-67
					*J 21474-2	Rear Upper & Lower Control Arm Bushing Remover & Installer	PONT.—1964-70 CHEV.—1964-70 TEMP.—1964-70 FIREBIRD—1967-69
	J 9502-3	"C" Washer Upper Control Arm Bushing (Part of J 9502-01)	OLDS.—1965-67 CHEV.—1964-70 PONT.—thru 1970		*J 21474-3	Screw Assembly	CAD.—1967-71 OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71
	J 9514	Lower Control Arm Spacer	CHEVY II—1962-70		*J 21474-4	Nut	OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71
	J 9516	Ball Joint Installer	OLDS.—1962-67		*J 21474-5	Receiver	CAD.—1964-71 CHEV.—1964-71 OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71




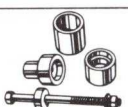

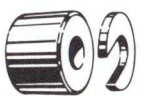
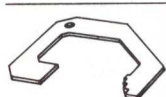

*Part of J 21474-01 Set.

CONTROL ARMS (FRONT & REAR) AND BALL JOINTS—(Continued)


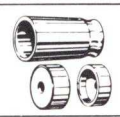
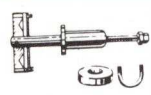













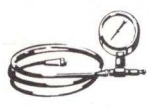
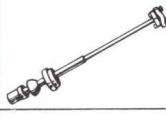

	*J 21474-6	Remover & Installer Carrier Bushing	CHEV.—1967-71 OLDS.—1964-71 PONT.—1964-71		J 21878	Lower Control Arm Spacer (Use with J 9519-01 & J 21058)	CORVAIR—1965-68 CHEV.—1965-70
	*J 21474-8	Lower Control Arm Front & Rear Bushing Remover	CHEV.—1966-71 OLDS.—1964-71 TEMP.—1964-71		J 21894	Lower Control Arm Oblong Bushing Installer (See J 9584)	OLDS.—1970-71 PONT.—1964-71 CHEVELLE—1971
	*J 21474-12	Space-Lower Control	CHEV.—1964-71 OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71		J 22175	Lower Control Arm Bushing Receiver	CHEV.—1965-71
	*J 21474-13	Installer Lower Control Arm Bushing Rear Front	CHEV.—1964-71 OLDS.—1964-71 PONT.—1964-71 TEMP.—1964-71		J 22222	Control Arm Bushing Remover & Installer Set (Use with J 21474-3-5)	ELDORADO—1967-71 TORONADO—1966-71
	*J 21474-15	Adapter-Rear Control Arm Bushing Receiver	PONT.—1965-67 TEMP.—1965-67 CHEV.—1964-69		J 22234	Front Knuckle Seal Installer	ELDORADO—1967-68 TORONADO—1966-67
	J 21474-16	Rear Control Arm Bushing Receiver	OLDS.—1955-69 PONT.—1965-67 TEMP.—1965-67		J 22269-01	Front Upper Control Arm Bushing Remover & Installer	CAMARO—1970
	J 21474-17	Rear Control Arm Bushing Receiver	PONT.—1965-67		J 22323	Lower Control Arm Bushing Set	OLDS.—1966-69 CHEV.—1967-70
	J 21482	Front Upper Control Arm Spacer	CHEV.—1964-70 PONT.—1967-68 FIREBIRD—1967-68		J 22517-01	Torsion Bar Unloader	ELDORADO—1967-71 TORONADO—1966-71
	J 21613	Front Suspension Lower Control Arm Front Bushing Service	PONT.—1964		J 22545	Rear Control Arm Bushing Installer Receiver	OLDS.—1966-70
	J 21628	Ball Stud Remover (7/16-20 Thd.)	AMER. MTRS.—1964-69:01 1970-71 All		J 22610	Spherical Joint Bond Installer	CAD.—1971
	J 21690	Lower Control Arm Ball Joint Remover & Installer Sleeve (Use with J 9519-01)	OPEL KADETT—thru 1970		J 22618	Upper Control Arm Torque Wrench Adapt. 1/2" Drive (3/4" double hex socket)	BU.—1967-71 PONT.—1967-71
	J 21830	Rear Suspension Control Arm Bushing Set	CHEV.—1965-70 CORVAIR—1965-68		J 22668	Rear Axle Bushing Service Set	AMER. MTRS.—1967-69
	J 21844	Torque Arm Bushing Installer	CORVAIR—1965-68		J 22717	Lower Control Arm Stake Remover	CHEV.—1967-69
	J 21859	Drive Spindle Flange Remover	CORVAIR—1965-68		J 22780	Ball Joint Remover & Installer	F.B.—1967-70
	J 21876	Front Suspension Lower Control Arm Bushing Set	CORVAIR—1965-68		J 22818	Control Arm Bushing Receiver (Use with J 21474)	OLDS.F.—85 "C" Axle

*Part of J 21474-01 Set.






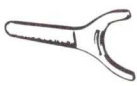



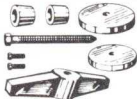







CONTROL ARMS (FRONT & REAR) AND BALL JOINTS—(Continued)

	J 22899	Front Upper Control Arm Bushing Receiver	PONT.—1968-69		J 23415	Chamber Adjusting Wrench (1 1/8")	CAD.—1970
	J 23114	Front Knuckle Outer Seal Installer	ELDORADO—1969-70		J 23473	Upper Control Arm Bushing Remover & Installer	AMER. MTRS.—1970-71 OLDS.—1970 All "C" Axle
	J 23115	Front Knuckle Inner Seal Installer	ELDORADO—1969-70		J 23514	Front Upper Control Arm Bushing Remover & Installer	CAMARO—1970
	J 23402	Lower Ball Joint Checking Gauge	OPEL—thru 1970		J 23705	Upper Rear Control Arm Spacer	ELDORADO—1971 TORONADO—1971












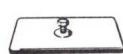


















SHOCK ABSORBERS, SHACKLES, SPRINGS

	J 6840-01	Air Suspension Pressure Gauge (0-400 lbs.)	CAD.—All AMER. MTRS.—All Flash-o-matic		J 22553	Rear Spring Bushing Remover & Installer	CHEV.—1967-70
	J 6874-01	Front Coil Spring Compressor	CHEV.—1958-63 CHEV. II—1962-63		J 22654	Front Coil Spring Compressor	TEMP.—1964-67
	J 6888	Valve Core Remover & Replacer	CAD.—All with air ride OLDS.—All with air ride PONT.—All with air ride		J 22695	Automatic Level Control Pressure Gauge Assembly (Part of 22124)	PONT.—1967-70
	J 7592-01	Front Coil Spring Compressor	PONT.—1958-67		J 22739	Front Coil Spring Remover & Installer	CAMARO & CHEVELLE—1967-70 PONT.—FIREBIRD—1967-69 CHEV. TRUCK—1968-70:10-30
	J 7842-03	Front Coil Spring Compressor (Pair)	AMER. MTRS.—1958-69:01-30-70		J 22774	Leaf Spring Front Bushing Remover	FIREBIRD—1967
	J 9552	Front Coil Spring Compressor	BU.—1961-70		J 22944	Front Coil Spring Remover & Installer	CORVETTE—1968-70
	J 21689	Front Leaf Spring Compressor	OPEL KADETT—thru 1970		J 23028-01	Front Coil Spring Remover & Installer	CHEV.—1968-71 ALL PONT.—1968-71
	J 21999	Automatic Lever Control Valve Assembly Set (Part of 22124)	CAD.—1965-70 CHEV.—1965-68 OLDS.—1966-67 BU.—1966-70		J 23123-01	Front Coil Spring Remover & Installer	AMER. MTRS.—1958-69:10-80
	J 22124	Automatic Lever Control Pressure Gauge Assembly (See J 21999) (0-300 lbs.)	CAD.—1965-70 CHEV.—1965-68 BU.—1966-70		J 23474	Front Coil Spring Compressor	AMER. MTRS.—1971 All
					J 23740	Front Coil Spring Compressor	BU.—1971












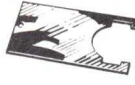
















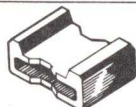
TIRES & WHEELS

	J 554-C	Hub & Drum Bolt Peening Tool Includes Punches J 554-3-7/16" J 554-4-7/16" J 554-11-3/8" J 554-18-1/2"	ALL CARS		J 8849	Front Wheel Outer Bearing Cup Installer (Use with J 8092)	CHEV.—1961-63 CORVAIR—1961-63 TEMP.—1961-70 CAD.—1967-69
	J 1644-02	Rear Wheel Hub Puller	AMER. MTRS.—All		J 8850	Front Wheel Inner Bearing Cup Installer with J 8092)	CHEV.—1961-63 CORVAIR—1961-63
	J 7137	Front Hub Inner Bearing Installer (Use with J 8092)	CHEV.—1958 CORVAIR—1960-61 PONT.—1957-70 TEMP.—1961 GMC TRUCK—1969 4 W.D.		J 21010	Rear Wheel Bearing Oil Seal Remover	CAD.—1963-69
	J 8148	Bearing Cup Insert (Use with J 8092)	CHEV.—1946-58 CORVAIR—1960-63		J 21011	Rear Wheel Bearing Oil Seal Installer	CAD.—1962-69
	J 8349	Front Hub Inner Race Installer (Use with J 7079-2)	CHEVY II—1962-63 CORVAIR—1960-63		J 22214-02	Front Hub Wheel Bearing Remover	ELDORADO—1967-71 TORONADO—1966-68
	J 8351	Front Hub Outer Race Installer (Use with J 7079-2)	CHEVY II—1962-63 CORVAIR—1960-63		J 22823	Front Wheel Grease Retainer Installer	AMER. MTRS.—1965-70
	J 8456	Front Hub Grease Retainer Installer (Use with J 8092)	CAD.—All		J 23054	Radial Run Out Gauge	PONT.—1968-71
	J 8457	Front Hub Outer Bearing Cup Installer (Use with J 8092)	CAD.—All		J 23672	Radial Run Out Dial Indicator Adapter (Use with J 8001)	(UNIVERSAL)
	J 8458	Front Hub Inner Bearing Cup Installer (Use with J 8092)	CAD.—All				





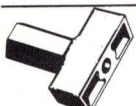

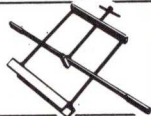
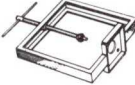
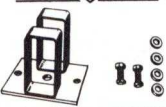


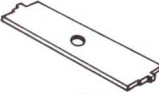
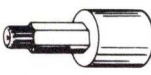


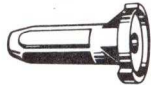





BRAKE

	J 628	Brake Bleeder Tube #10-32 Thd. Fitting	ALL CARS		J 21177	Drum to Brake Shoe Clearance Gauge (7" to 12" Drums)	ALL CARS
	J 4707	Brake Adjusting Tool	CHEV.—thru 1963		J 21183	Power Brake Push Rod Height Gauge	DELCO MORaine—1.218 1.223
	J 4735	Brake Adjusting Tool	CAD.—thru 1962 OLDS.—thru 1963 PONT.—thru 1968		J 21231	Brake Self Adjusting Lever Unlocking Tool	BU.—thru 1970
	J 6166	Brake Adjusting Tool	BU.—thru 1970		J 21472	Brake Bleeder Wrench—5/16" & 3/8" Hex	DELCO MORaine—BENDIX—1962-70
	J 7723-01	Power Brake Push Rod Height Gauge	DELCO MORaine—BENDIX—1.195-1.200 CAD.—1968		J 21479-01	Brake Bleeder Adapter—Single Master Cylinder	DELCO MORaine—BENDIX—1964-66
	J 8002	Brake Cylinder Clamps—(Set of 4)	ALL CARS—except disc brakes		J 21521	Brake Bleeder Adapter—Dual Master Cylinder	DELCO MORaine—CAD.—1964-66
	J 8057	Brake Spring Pliers	ALL CARS		J 21524	Power Brake Piston Remover & Installer	DELCO MORaine—1964-68
	J 8531-01	Power Brake Push Rod Height Gauge	DELCO MORaine—1.834-1.832		J 21601-01	Power Brake Retainer Installer	DELCO MORaine—1964-68
	J 8915	Brake Adjusting Tool	PONT.—1961		J 21700	Brake Backing Plate Aligning Arbor (2 req'd.)	OPEL KADETT—thru 1971
	J 9477-01	Brake Bleeder Adapter—Single Master Cylinders	DELCO MORaine—BENDIX—1962-63		J 21701	Master Cylinder Piston Installer	OPEL KADETT—thru 1971
	J 9485	Brake Adjusting Tool	TEMP., FIREBIRD, PONT.—1961-68		J 21713	Brake Bleeder Adapter	OPEL KADETT—thru 1971
	J 9504	Vacuum Power Cylinder Spanner Wrench (See J 22676)	AMER. MTRS.—1963-70 BENDIX—1962-68 CAD.—1966-68 DELCO MORaine—1964-68		J 21927	Brake Drum Spring Installer	BENDIX AMER. MTRS.
	J 9540	Rear Shell Seal Installer	BENDIX—1962-67		J 21938	Power Brake Piston Retainer	DELCO MORaine CORVETTE—1965-67
	J 9571	Power Brake Push Rod Height Gauge	BENDIX—.995-.990		J 21939	Power Brake Front Piston Seal Installer	DELCO MORaine CORVETTE—1965-67
	J 9746	Press Plate	DELCO—1964-68		J 21940	Power Brake Piston Rear Seal Installer	DELCO MORaine CORVETTE—1965-67





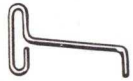

























BRAKE—(Continued)

	J 21994	Brake Bleeder Adapter—Single Master Cylinders	DELCO MORaine CORVETTE—1965-66		J 22642	Disc Brake Piston Dust Seal Installer—2 1/8"	BENDIX—1967-68
	J 22364	Drum to Brake Shoe Clearance Gauge (7" to 15" Drums)	ALL CARS & TRUCKS		J 22644	Power Brake Push Rod Height Gauge	BENDIX—1967-68: 1.225-1.220
	J 22385	Stop Light Sending Unit Socket, Oil Pressure Sending Unit Socket	AMER. MTRS.— 1966-67		J 22647	Power Brake Push Rod Height Gauge	DELCO MORaine— 1975-1985, 1875-1885
	J 22429	Disc Brake Piston Retaining Tool	OPEL KADETT— thru 1971 disc brakes		J 22651	Power Brake Push Rod Height Gauge	MIDLAND ROSS— 1967-68: 1.097-1.100
	J 22430	Disc Brake Expander	OPEL KADETT— thru 1971		J 22657	Power Brake Bushing Retainer Socket	MIDLAND ROSS— 1967-68
	J 22489-01	Brake Bleeder Adapter—Dual Master Cylinders	DELCO MORaine— BENDIX—1967-70		J 22658	Power Brake Valve Body Remover & Installer	MIDLAND ROSS— 1967-68
	J 22489-1	Brake Bleeder Adapter (Dual Master Cylinder) (Part of J 22489-01)	DELCO MORaine— BENDIX CAD.—1967-71		J 22664	Power Brake Piston Ring Compressor—2"	AMER. MTRS.— 1965-70 BENDIX—1967-68
	J 22489-12	Bleeder Adapter Cables (Use with J 22489-1)	CAD.—1967-71		J 22674	Disc Brake Piston Retainer	DELCO MORaine— 1967-68
	J 22591	Disc Brake Piston Ring Compressor—2 1/16"	DELCO MORaine— 1967-68		J 22676	Vacuum Power Cylinder Bolt Set (Use with J 9504)	OLDS.—1967
	J 22592	Disc Brake Boot Seal Installer—2 1/16"	DELCO MORaine— 1967-68		J 22677	Power Brake Shell Seal Installer	BENDIX—1967-69
	J 22626	Disc Brake Piston Ring Compressor—2 1/8"	BENDIX—1967-68		J 22733	Diaphragm Seal Protector (Bendix Dual)	AMER. MTRS.— 1968-70 CHEV.—1968 Bendix Dual PONT.—1967-70 CAD.—1968-69 OLDS.—1967
	J 22628	Disc Brake Boot Seal Installer—1 7/8"	DELCO MORaine— 1967-68				
	J 22629	Disc Brake Piston Ring Compressor—1 7/8"	DELCO MORaine— 1967-68		J 22742-01	Disc Brake Metering Valve Retainer	CAD.—1967-70
	J 22638	Disc Brake Boot Seal Installer—1 3/8"	DELCO MORaine CORVETTE—1967-68		J 22793	Disc Brake Metering Valve Actuator	PONT.—1967-69 TEMP.—1967-69 FIREBIRD—1967-69 BU.—1968-70 BENDIX & DELCO
	J 22639	Disc Brake Piston Ring Compressor—1 3/8"	DELCO MORaine CORVETTE—1967-68		J 22801	Disc Brake Pad Spacer	PONT.—1967-69

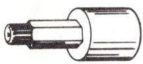
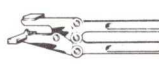

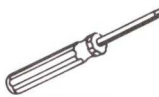




BRAKE—(Continued)

	J 22805-01	Power Brake Vacuum Booster Holder	AMER. MTRS.—1965-70 PONT.—1968-71 CHEV.—1968-71		J 23325	Reaction Piston Gauge	CAD., DELCO MORaine—1969-71
	J 22835	Caliper Sleeve Seal Protector	CAD.—1968		J 23337	Reaction Piston Gauge	PONT.—1969-71 CHEV.—1971
	J 22839	Power Brake Diaphragm Plate Holding Fixture	CHEV.—1968-71 BENDIX—Dual Diaphragm CAD.—1968		J 23439	Metering Valve Depressor	CAD.—1970 disc brakes only
	J 22884	Brake Booster Compressing Fixture	CAD.—1968-71		J 23456	Brake Booster Separating Fixture	BENDIX & DELCO—dual diaphragm
	J 22893-01	Brake Vacuum Booster Separating Adapter	CHEV.—1968-71 PONT.—1968-71		J 23462	Park Brake Cable Adjusting Gauge	AMER. MTRS.—1970-71
	J 22904	Disc Brake Dust Boot Installer	CHEV.—1968-71 Single Piston disc brake PONT.—1968-71 CAD.—1969-71		J 23470	Reaction Piston Gauge	OLDS.—1970-71
	J 23017-01	Serrated Bit 10 mm	OPEL—disc brakes		J 23518	Brake Bleeder Adapter	ALL G.M.
	J 23101	Diaphragm Plate Separator	DELCO—1969-71 dual Diaphragm		J 23572	Dust Boot Installer	VEGA 2300
	J 23108	Internal Vacuum Leak Tester 0-30 lbs.	CAD.—1966-71		J 23709	Combination Valve—Metering Valve Actuator	ALL—Delco, Kelsey-Hayes & Bendix Valves
	J 23175	Control Valve Installer	DELCO—1969-71 dual diaphragm		J 23730	Self Adjusting Drum Brake Releasing Tool	VEGA 2300
	J 23188	Bearing Seal Protector	DELCO—1969-71 dual diaphragm				




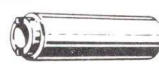
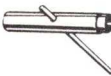



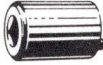




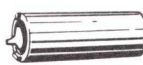






BODY & TRIM TOOLS

	J 2631-01	Trim Pad Depressor	ALL CARS		J 21688	Door Hinge Pin Remover	OPEL KADETT—1963-71
	J 2772	Headlining Installer	ALL CARS		J 21928	Front Compartment Torque Rod Adjusting Tool	CORVAIR—1965-68
	J 6335	Trim Pad Remover	ALL CARS		J 22213	Remote Mirror Nut Wrench	PONT.—1963-71
	J 7158	Trim Nut Drive Socket— $\frac{3}{16}$ "	BU., OLDS., PONT.—thru 1963		J 22291	Rear Deck Lid Torsion Rod Adjusting Tool	BU., OLDS.—E Body, 1966-70
	J 7159	Trim Nut Drive Socket— $\frac{1}{8}$ "	BU., OLDS., PONT.—thru 1963		J 22382	Open Hood Safety Stop (Set of 6)	CHEV.—1965-71
	J 8749	Door Hinge Socket & Ratchet	CORVAIR—1960-63		J 22413	Door Hinge Screw Driver Bit—#4 Posi-drive	AMER. MTRS.—1966-68 PONT. FIREBIRD—1967
	J 8923	Hood Hinge Spring Remover & Installer	F-85, PONT.—thru 1965		J 22585	Door Hinge Bolt Wrench— $\frac{9}{16}$ "	CHEV. TRUCK—1968
	J 8943-01	Spot Weld Cutting Tool (With 3 extra blades)	UNIVERSAL		J 22675	Door Hinge Bolt Wrench— $\frac{5}{16}$ " Loc-rite	CORVAIR—1968
	J 8967	Replacement Blades for J 8943-01 (Set of 6)	UNIVERSAL		J 22710	Vinyl Roof Molding Installer	ALL GM—thru 1968
	J 9554	Rear Deck Lid Torsion Bar Remover & Installer	CHEVY II, BU. SPEC. TEMP.—1962-63		J 22729	Front Door Hinge Bolt Wrench— $\frac{9}{16}$ "	ALL GM—(B, C & E Body) 1967-71 GM—(E Body) 1970
	J 9886	Door Handle Clip & Trim Pad Remover	ALL CARS		J 22732	Door Lock Striker Wrench	AMER. MTRS.—1967-71; 10-30-70-80
	J 21092	Fabric Roof Cover Trim Knife	ALL CARS		J 22810	Door Hinge Wrench— $\frac{1}{2}$ "	ALL GM CARS—A Body, 1968-71 B & C Bodies, 1969
	J 21214	Rocker Panel Moulding Clip Pliers	ALL—Bath Tub Type Clips		J 22901	Glove Box Nut Wrench	PONT.—1968-70
	J 21412	Rear Deck Lid Torsion Bar Remover & Installer	ALL GM—(A body) 1964-68		J 22977	Lock Tumbler Filing Fixture	AMER. MTRS.—1968-71
	J 21550	Front Door Hinge Wrench— $\frac{1}{2}$ "	ALL GM—(A body) 1964-67 ALL GM—F, X & Z Body, 1969-70		J 22993	Mirror Spanner Wrench	CAD.—1967-69







BODY & TRIM TOOLS—(Continued)

	J 23302	Door Lock Striker Wrench	CHEV.—1969		J 23497	Door Hinge Spring Compressor	CHEV.—1970-71
	J 23408	Trunk Lid Torque Rod Adjuster	CHEV.—1969-70		J 23554	Arm Rest Nut Wrench	PONT.—1970-71
	J 23457	Door Lock Striker Wrench	BU., CHEV., PONT.—1970		J 23719	Torque Rod Adjuster	1971 B Wagons with Aluminum Shell Rear Row
	J 23495	Door Hinge Wrench (1/2" Size)	AMER. MTRS.— 1970: 01		J 23722	Trunk Lid Torque Rod Adjusting Tool	CAD.—1971












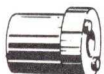





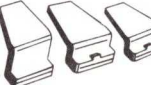



INSTRUMENT PANEL & WINDSHIELD WIPER TOOLS

	J 5893-01	Ignition Switch Nut Wrench	PONT.—thru 1965		J 8562	Ignition Switch Nut Wrench	BU.
	J 6481	Ignition Switch Nut Wrench	CAD.—thru 1962		J 8563	Instrument Panel Escutcheon Nut Wrench	BU.
	J 6592-02	Windshield Wiper Transmission Remover & Installer	BU.—thru 1963 CAD.—thru 1967 OLDS., PONT.— thru 1963		J 8653	Instrument Panel Nut Wrench	PONT.—1954-67
	J 7607-01	Ignition Switch Nut Wrench	CHEV., PONT.— thru 1965		J 8966	Windshield Wiper Arm Remover & Installer	CAD.—thru 1967
	J 7673	Windshield Wiper & Light Switch Control Nut Wrench	CHEV.—thru 1962		J 21109	Ignition Switch Nut Wrench	CAD.—thru 1966
	J 7708-01	Ignition Switch Nut Wrench	CAD.—thru 1962		J 21233	Windshield Wiper & Light Switch Nut Wrench	BU.
	J 7778	Fog-Lamp Switch Nut Wrench	CAD.—thru 1962		J 21258	Windshield Wiper & Light Switch Nut Wrench	PONT.—1963-65
	J 7844	Windshield Wiper Field Coil Remover	ALL G.M. CARS		J 21724	Light Switch Nut Wrench	OPEL KADETT
	J 7890	Windshield Wiper Motor Brush Retaining Spring	ALL G.M. CARS		J 21932	Switch Bezel and Ferrule Nut Wrench	ALL CARS
	J 8074	Hydraulic Pressure Gauge (0-60 lbs.)	ALL CONVERTIBLES		J 22128	Windshield Wiper Arm Remover & Installer	PONT.—1966-67


INSTRUMENT & WINDSHIELD WIPER TOOLS—Continued

	J 22305	Ignition Switch Nut Wrench	CHEV.—1966-67		J 23018	Windshield Wiper Switch Bezel Socket	CHEV.—1968
	J 22374	Instrument Panel Bezel Removing Tool	PONT.—1966-68		J 23118	Instrument Panel Accessory Switch Punch	PONT.—1969-70
	J 22547	Ignition Switch Nut Wrench	CAD.—1967		J 23373	Key Identification Plug Remover	ALL G.M.




GLASS AND WEATHERSTRIP SERVICE TOOLS

	J 2767	Windshield Glass Seal Insert Installer	BU., CAD., OLDS.		J 21549-5	Reveal Moulding Clip Remover—Right Hand Blade (Use with J 21549-1)	ALL—caulked window glass
	J 3296	Body Cement Gun	ALL CARS		J 21549-6	Reveal Moulding Clip Remover—Left Hand Blade (Use with J 21549-1)	ALL—caulked window glass
	J 5742-01	Windshield Aligning Blocks (Set of 6)	ALL GM CARS—thru 1961 CHEV.—1967-68: G-10		J 21549-10	Reveal Moulding Clip Remover—Right Hand Blade (Use with J 21549-1)	ALL—aluminum mouldings
	J 5757	Mechanical Weatherstrip Installer	ALL CARS		J 21549-11	Reveal Moulding Clip Remover—Left Hand Blade (Use with J 21549-1)	ALL—aluminum mouldings
	J 7898-01	Reveal Moulding Remover	ALL GM CARS—thru 1965		J 21828	Reveal Moulding Clip Installer (Use with J 21549-1)	OPEL—thru 1970
	J 8942	Windshield Aligning Blocks (Set of 6)	ALL GM CARS—thru 1965		J 22055	Door & Quarter Window Roller Nut Socket	ALL GM—1965-70
	J 9776	Weatherstrip Remover	ALL CARS		J 22577	Windshield Aligning Blocks (Set of 6)	CHEV. TRUCK—1967-68
	J 21104	Weatherstrip Remover	ALL CARS		J 23394	Glass Alignment Gauge Blocks	GM—1970 Ventless windows
	J 21549-1	Handle	Use with J 21549-3-4-5-6-10-11		J 23711	Glass Alignment Gauge Blocks	GM—1971 Ventless windows
	J 21549-3	Reveal Moulding Clip Remover—Angle Blade (Use with J 21549-1)	ALL—caulked window glass		J 23711-5	Glass Alignment Gauge Blocks	CAD.—1971
	J 21549-4	Windshield Adhesive Cutting Knife (Use with J 21549-1)	ALL—caulked window glass				

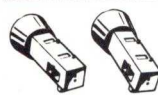



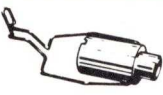
GENERAL CLOCK

	J 21110	Clock Remover & Installer	BU.—1963-64 Series 44, 46, 47, 48				
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VACUUM SYSTEMS

	J 23309	Vacuum Systems Tester	ALL		J 23738	Hand Operated Vacuum Device	(UNIVERSAL)
	J 23418	Carburetor Vacuum Break Actuator	BU.—Rochester Carburetors				






HEADLIGHTS

	J 6878-01	Split-Image Headlight Aiming Device	ALL CARS		J 22630	Guide-Matic Sensitivity Tester	BU.—1968-71
	J 21529	Guide-Matic Analyzer	CAD.—1964-67		J 22837	Guide-Matic Leveling Device	BU.—1968-71
	J 22622	Guide-Matic Test Adapter	CAD.—1967				

RADIO—STEREO TAPE—ANTENNA

	J 6968	Radio Control Knob Nut Wrench	CAD.—1957-67 CHEV.—1970		J 22889	Antenna Nut Wrench, Power Antenna	BU.—1969, A Body B & C Bodies thru 1968
	J 8676	Antenna Nut Wrench	PONT.—with Mast Antennas		J 23106	Antenna Nut Wrench	BU.—1968-69 A Body
	J 9215	Antenna Nut Wrench	OLDS.—with Mast Antennas		J 23505	Stereo Test Tape	AMER. MTRS.— 1970-71 ALL G.M.
	J 22194	Radio System Checker	ALL GM—thru 1971		J 23520	Windshield Antenna Tester	AMER. MTRS.— 1970-71
	J 22276	Antenna Lead-in Extension (Use with J 22194)	BU.—1966-71 PONT.—1966-67		J 23724	Cassette Test Tape	1971 Delco Tape Players
	J 22683-01	Stereo Test Tape Cartridge	BU.—1967-71 CHEV.—1967-71 PONT.—1967-71 OLDS.—1967-71 CAD.—1969-71				

GENERAL AUTOMATIC SPEED CONTROL UNITS

	J 7652	Cruise Control Cable Adjusting Gauge	CAD.—1959-66 PONT.—1963 OLDS.—1963-65		J 22375	Cruise Control Cable Adjusting Gauge	CHEV.—1966-67 CHEVELLE—1966-67
	J 8547	Cruise Control Governor Wedge	CAD.—thru 1965 CHEV.—thru 1965 OLDS.—thru 1965 PONT.—thru 1965		J 22650	Cruise Control Cable Adjusting Gauge	CAD.—1967
	J 22280	Cruise Control Cable Setting Tool Gauge	CAD.—1966 OLDS.—1966-67				

GENERAL

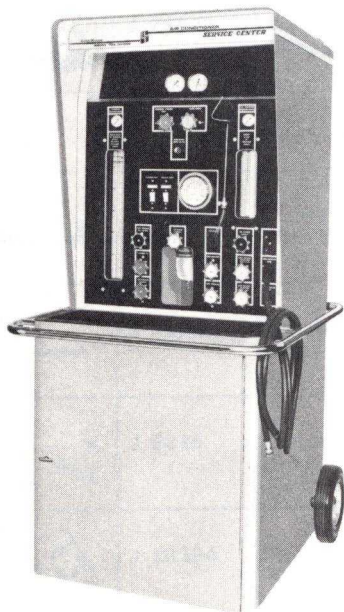
J 23500 Portable Air Conditioner Service Station (HEATED)

J 23500 is a compactly styled portable service station of evacuating and charging equipment. It is designed to allow service technicians to easily do a first rate job of servicing automotive air conditioners.

This station is equipped with a controlled heated cylinder which assures a complete charge into the high pressure side of the compressor. This feature reduces the charging time considerably and enables a complete and accurately measured charge without running the car!

J 23500 service station is supplied with a cylinder pressure gauge and a sight glass which is graduated so that compensation for refrigerant expansion can easily be made.

This equipment reduces air conditioner servicing to a simple hook-up and manipulation of clearly labelled valves.



J 23510 Portable Air Conditioner Service Station Conversion Kit

to convert Non-heated charging station

J 22110 Air Conditioner Service Center

The increased volume of automotive air conditioner service work has created the need for a faster and more efficient method of diagnosing the complete system for maximum trouble free-operation.

The J 22110 Service Center incorporates all the desired operational features to make it the ultimate in equipment now available to the automotive air conditioner service industry.

AIR CONDITIONING CHARGING AND EVACUATION SYSTEM:

- Completely controlled from the illuminated front panel of the Service Center.
- The gauge manifold system consists of a new Teflon seated manifold with 2 1/2" Dial Faced Gauges, A 0-500 lb. high pressure gauge and a (0-30" mercury vacuum & 0-120 p.s.i.) Compound Gauge—Both gauges have silicon treated movements.
- An accurately calibrated 5 lb. charging cylinder with a controlled heating element, automatically compensates for refrigerant expansion at various pressures. Has easy to read 1/8 lb. graduations. The extra large 3/8"

Those presently equipped with a J 8393, J 8393-01 or J 8393-02 Charging Station now have the opportunity to update their stations to incorporate the controlled heated cylinder features. With this simple to "hook-up" conversion kit you will upgrade your Air Conditioning Service capabilities considerably!

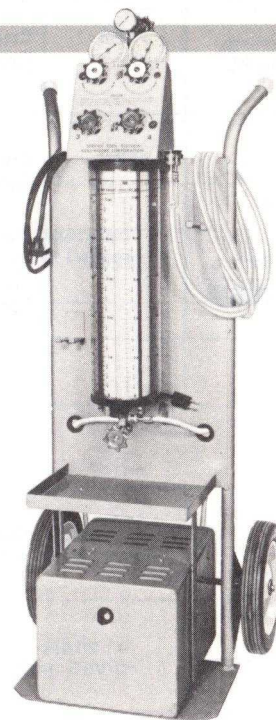
FEATURES

Vacuum Pump—quick, efficient, durable—pulls practically absolute vacuum on any car conditioner, facilitating removal of moisture and contamination.

Control Panel Assembly—complete with manifold, 500 pound and combination low pressure vacuum gauges. Five U. S. Rubber high-strength hoses, quick connect adapters, control valves and readily visible, compact instructions. Refrigerant Drum Adapter—J 8695-18 and Gauge Adapters J 5420 and J 9459 for Schrader valves included.

Charging Cylinder—Eliminates weighing refrigerant. Completely shielded with high strength plastic for complete safety.

Sturdy Construction—Big wheels and no slide design make the unit completely portable and practical.



diameter charging lines come complete with angle adapters.

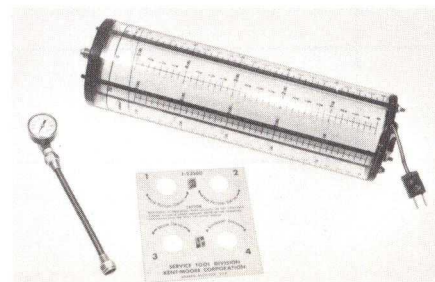
- A high capacity single stage vacuum pump with vented exhaust is of highest quality.

COMPRESSOR OIL SERVICE ON FACTORY INSTALLED G.M. SYSTEMS:

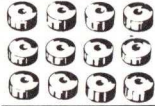
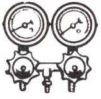




























J 22110 includes a method to remove, examine, and replace compressor oil without removing the compressor. The oil charging cylinder is graduated in easy to read one ounce increments and has a 32 ounce capacity.

CABINET ASSEMBLY








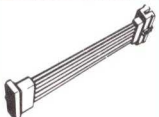
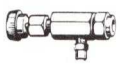





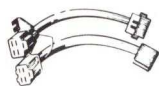











- The attractive cabinet is sturdily constructed of 18 gauge steel 67" high x 35" wide x 36" deep—Big 10" rear wheels for complete portability to move around shop—gray hammerloid finish—Chrome door latches and handle bar—Black control panel with color coded knobs.
- The rear of the cabinet has a full length piano hinged door to accommodate even the largest of refrigerant drums (145 lbs.) on a unique pivoting tank cradle.
- A handy vacuum molded plastic tool tray is located below the front control panel. The lower portion of the cabinet provides a spacious tool and parts storage area.






















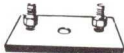
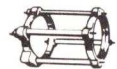









GENERAL AIR CONDITIONER

	J 5418-1	Replacement Rubber Grommets for Charging Lines—Pkg. of 12		J 5725-04	Deluxe Manifold and Gauge Set Consists of: J 5725-5 Compound Gauge, J 5725-6 Pressure Gauge, J 5725-7 Manifold Assembly
	J 5418-2	Replacement Valve Release Keys for Charging Lines—Pkg. of 6		J 6076	Humidicator
	J 5418-36B	Charging Line—36" Blue		J 6084	Leak Detector—Liquid Propane
	J 5418-36R	Charging Line—36" Red		J 6105	Refrigerant Ratchet Wrench ($\frac{1}{4}$ " Ratchet)
	J 5418-48W	Charging Line—48" White		J 6271-01	Refrigerant Can Opener Fits—All Valve
	J 5418-72B	Charging Line—72" Blue		J 6272-02	Multi Refrigerant Can Opener Handles—4 Cans
	J 5418-72R	Charging Line—72" Red		J 6742-03	Thermometer—Dial Type (25°-125°) Shock Resistant
	J 5418-72W	Charging Line—72" White		J 6856	Tube Wrench (1")
	J 5420	Gauge Adapter—Straight		J 6857	Tube Wrench (1 $\frac{1}{4}$ ")
	J 5421-01	Pocket Thermometer (25°-125°F) White Background		J 7605-03	Oil Injector
	J 5424-1	Tube Wrench— $\frac{7}{8}$ "- $\frac{9}{16}$ "		J 7727	Hot Gas Bypass Valve Adjuster
	J 5424-2	Tube Wrench— $\frac{3}{4}$ "- $\frac{7}{8}$ "		J 9459	Gauge Adapter—90°
	J 5428-03	Vacuum Pump (In Metal Carrying Case) includes J 5428-11 Oil		J 9505	Suction Throttling Valve Adjuster
	J 5428-11	Low Viscosity Refrigeration Oil (1 qt.) for J 5428-03 & J 23178 Vacuum Pump		J 9508	Air Conditioner Hose Remover
	J 5453	Safety Goggles		J 10550	York & Tecumseh Compressor Tool Kit








GENERAL AIR CONDITIONER—(Continued)

	J 21213	Temperature Tester (−50° +150°F)		J 23124	Comfortron Circuit Board Amplifier Adapter (Used with J 22368-01) (1969 Chev.)
	J 21530	Control Knob Adjuster (Comfortron)		J 23178	Vacuum Pump (Universal)
	J 21974	Automatic Temperature Control Gauge Set (Pontiac)		J 23187	Automatic Temperature Control Lever Adjuster (1969 Pontiac)
	J 22083	Suction Throttle Valve Guide Pin Set		J 23189	A/C Tester Adapter (1969 Cadillac)
	J 22132-02	Schrader Valve Core Remover and Installer		J 23390	12 lb. Disposable Can Control Opener
	J 22368-01	Automatic Temperature Control Tester (Olds., Chev.) (See J 22655) (Cad. thru 1968)		J 23400	Electronic Leak Detector
	J 22555	Pocket Thermometer (−50° to −120°F) Yellow Background		J 23471	Automatic A/C Temperature Control Tester Adapter (1970 Chev.)
	J 22655	Comfortron Circuit Board Amplifier Adapter (Used with J 22368-01—Olds. 1967-68)		J 23575	Complete Manifold Assembly (Includes Hoses)
	J 22667-01	Automatic Air Conditioner Door Adjuster (Pontiac)		J 23595	Domed Refrigerant Can Opener
	J 22684-02	Automatic Temperature Control Tester (Pontiac)		J 23600	Belt Tension Gauge
	J 22684-51	Automatic Temperature Control Adapter (Pontiac, 1970)		J 23640	Thermometer Dial Type (0-220°)
	J 22705	Leak Detector Electronic H-10; 220 Volt Cycle		J 23678	A/C Comfortron Tester (All G.M. 1971)
	J 22860	Automatic Climate Control Vacuum Regulator (1969-70 Buick)		J 23713	Programmers Test Harness

6 CYLINDER G.M. COMPRESSOR

	J 5139	Oil Pick-Up Tube Remover		J 9403	Clutch Hub Holding Tool
	J 5403	Snap Ring Pliers (#21 Internal)		J 9432	Needle Bearing Installer
	J 6435	Snap Ring Pliers (#26 External)		J 9433	Suction Cross-Over Cover Seal Installer
	J 7151-02	Feeler Gauge Set (non-magnetic) (.025", .032", .035", .045")		J 9443	Pulley Puller Screw (Use with J 8433) (Olds. 1961)
	J 8092	Driver Handle		J 9480-01	Hub & Drive Plate Assembly Installer
	J 8433	Compressor Pulley Puller		J 9481	Pulley Bearing & Pulley Installer (Use with J 8092)
	J 9392	Shaft Seal Remover & Installer		J 9544	Dial Indicator (.0005" Increments Checks Compressor Shaft End Play)
	J 9393	Seal Seat Remover & Installer (Carbon Seat)		J 9553	"O" Ring Remover
	J 9395	Pulley Pilot (Use with J 8433 Puller)		J 9564-01	Feeler Tension Gauge Set Includes: (.012", .005", .006", .007", .008", .009", .010", .011", .015", .017", .018", .019", .020", .021", .022")
	J 9396	Compressor Holding Fixture (Use with J 9397)		J 9625	Pressure Test Set with Schrader Valves
	J 9397	Compressing Fixture		J 9661-01	Feeler Tension Gauge Set Includes: (.017", .018", .019", .020", .021", .022")
	J 9398	Pulley Bearing Remover (Use with J 8092)		J 21352	Compressor Support Block
	J 9399	Compressor Shaft Nut Socket (5/16" Thin Wall Hex)		J 21508	"O" Ring Installer
	J 9401	Hub & Clutch Drive Plate Assembly Remover		J 22974	Compressor Shaft Oil Seal Protector
	J 9402	Piston Assembly Tray		J 23128	Compressor Shaft Seal Seat Remover & Installer (Ceramic Seat)




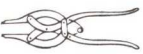

5 CYLINDER G.M. COMPRESSOR

	J 6320	Compressor Seal Protector		J 7605-03	Compressor Oil Injector (2 oz. Capacity)
	J 6322-02	Compressor Clutch Plate Remover		J 8446	Clutch Plate & Pulley Installer
	J 6402	Compressor Seal Protector		J 9228	Air Gap Gauges (.022 & .037)
	J 7151-02	Non-Magnetic Feeler Gauges (.025", .032", .035", .045")			


GENERAL PRESS PLATE HOLDERS

	J 358-1	4 $\frac{7}{8}$ " Press Plate Holder		J 6407	4 $\frac{7}{8}$ " & 6" dia. Press Plate Holder
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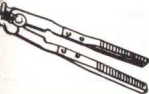

PLIERS (SNAP-RING)


	J 932	Vacuum Grip		J 8039	Modified Vacuum Grip
	J 5172	Needle Point		J 8059	Parallel Opening Jaws
	J 5586	Modified Vacuum Grip			

PLIERS (TRU-ARC)

	J 4245	#23 Internal	J 6083	#23 External	J 21157	#23 Internal—45° Tips
	J 4646	#5 Internal	J 6435	#26 External	J 22380	#9 Internal—90° Tips
	J 4880	#22 External	J 8871	#22 External—90° Tips	J 23432	#8 External—90° Tips
	J 5207	#25 Internal	J 8872	#24 External—90° Tips		
	J 5403	#21 Internal	J 8873	#25 Internal—90° Tips		




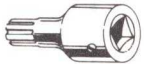


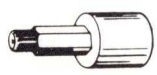

PLIERS (SPECIAL)

	J 8404	Corbin Type Clamp Pliers		J 22716	Band-It-Hose Clamp Pliers
	J 22610	Keystone Clamp Pliers		J 23373	Key Identification Plug Remover









GENERAL TORQUE WRENCHES


J 1264	1/2" Square Drive	0-200 ft. lbs.	J 7754	3/8" Square Drive	0-25 in. lbs.
J 1313	1/2" Square Drive	0-15 ft. lbs.	J 8058	1/2" Square Drive	0-50 ft. lbs.
J 1315	3/8" Square Drive	0-25 ft. lbs.	J 8398	3/4" Square Drive	0-500 ft. lbs.
J 5853	3/8" Square Drive	0-100 in. lbs.	J 8603	3/8" Square Drive	0-600 in. lbs.
J 6459	3/8" Square Drive	0-50 in. lbs.	J 9187	3/4" Square Drive	0-300 ft. lbs.



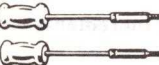

















SPECIAL BITS

	J 7595	#2 Phillips Screw Driver Bit		J 22413	#4 Posi-Drive Screwdriver Bit—American Motors
	J 22915-01	12mm 1/2" Drive 1.5 & 1.9 Liter Head Bolts—Opel		J 23457	Door Lock Striker—All G.M. 1968-71
	J 23016-01	8mm 3/8" Drive—Opel—All Engines		J 23656	6 mm 3/8" Drive Oil Pump Return Line Retaining Bolts—Opel
	J 23017-01	10mm 1/2" Drive 1.1 Liter Head Bolts—Opel		J 23659	5mm x 3/8" Drive Hex Key Socket—Opel Door Striker—1971






TORQUE WRENCH ADAPTERS

	J 5583	1/2" Female to 3/4" Male		J 9639	1/4" Square Drive—3/8" Square (1" Between Centers)
	J 8004-01	1/2" Square Drive—3/4" Double Hex—4 1/2" Long		J 21047	1/2" Square Drive—5/8" Double Hex—9 1/4" Long
	J 8068	3/8" Female to 1/2" Male		J 21881	1/2" Square Drive—5/8" Double Hex—4 1/2" Long
	J 9113-01	3/8" Square Drive—1/2" Double Hex (1 13/16" Between Centers)		J 23410	Torque Wrench Multiplier (See J 23413 on page 63)





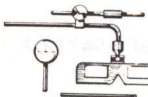
GENERAL SLIDE HAMMERS

	J 2619-01	5/8-18 Thread with 1/2-13 Adapter		J 6471-9	Adapter 1/16 — 20 Part of J 6471-02
	J 6125	5/16-18 Thread with 3/8-16 Adapter (Set of 2)		J 6471-10	Adapter 5/16 — 18 Part of J 6471-02
	J 6471-02	5/8-18 Thread Slide Hammer Puller & Adapters. Adapters listed below are included.		J 6471-11	Adapter 5/8 — 11 Part of J 6471-02
	J 6471-2	Adapter 3/8 — 16 Part of J 6471-02		J 6471-12	Adapter 7/8 — 14 Part of J 6471-02
	J 9276-21	Adapter 3/8 — 24 Part of J 6471-02		J 6471-13	Adapter 7/8 — 9 Part of J 6471-02
	J 6471-4	Adapter 1/2 — 20 Part of J 6471-02		J 6471-14	Adapter 1/2 Pipe Part of J 6471-02
	J 6471-5	Adapter 3/4 — 10 Part of J 6471-02		J 6471-15	Adapter 1/4 Pipe Part of J 6471-02
	J 6471-6	Adapter 3/4 — 16 Part of J 6471-02		J 6585-01	1/16-14 Thread with 5/16-18 Adapter (Set of 2)
	J 6471-7	Adapter 1 — 14 Part of J 6471-02		J 7004	3/8-16 Thread (Set of 2)
	J 6471-8	Adapter 1/2 — 13 Part of J 6471-02		J 8117	Adapter 1/2-10 Female to 1/2-20 Male



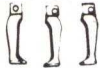
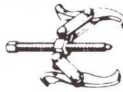

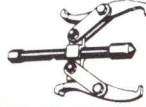


DRIVER HANDLES & EXTENSIONS

	J 7079-2	Driver Handle (For Non-Threaded Type Drivers)		J 21054-1	Driver Handle
	J 8092	Threaded Type 3/4-10 (9" long)		J 21465-13	Driver Handle Extensions 3/4 x 10 Male & Female Thread
	J 8592	Threaded Type 3/4-10 (12" long)			





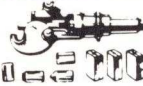

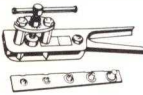

GENERAL DIAL INDICATORS & EXTENSIONS

	J 5339	Dial Indicator Plunger Extension 1 3/8" long (Use with J 8001)		J 8001	Dial Indicator Set (.001" Increments—.100 Travel)
	J 7057	Dial Indicator Plunger Extension 2 1/2" long (Use with J 8001 or J 9544)		J 9544	Dial Indicator (.0005" Increments— .100 Travel)
	J 7872	Magnetic Base Indicator Set			

UNIVERSAL PULLERS & ADAPTERS

	J 8111	Utility Puller Set		J 9216	Five Ton Hydraulic Puller with 2—6" Legs
	J 9003	3" Legs (Use with J 9216 or J 9010) 3 Required		J 22588-02	Side Bearing Puller & Adapters
	J 9006	6" Legs—Set of 2 (Use with J 9010)		J 22888	Side Bearing Puller
	J 9010	Ten Ton Ram—Less Legs		J 22888-01	Side Bearing Puller with Adapters

TUBE FLARING TOOLS

	J 2185-A	Double Lap Flaring Tool Set 37 Degrees for 3/16, 1/4, 5/16, 3/8 and 1/2" diameter tubing (Complete in metal box)		J 23531	Slip-on Tube Bender 5/16" Bending Spring
	J 2185-B	Double Lap Flaring Tool Set 45 Degrees for 3/16, 1/4, 5/16, 3/8 and 1/2" diameter tubing (Complete in metal box)		J 23532	Slip-on Tube Bender 1/4" Bending Spring
	J 6892	Double Lap Flaring Tool— 45 Degrees for 3/16, 1/4 and 5/16 diameter Tubing		J 23533	Tube Cutter
	J 23530	Flaring Tool 45° Single & Double Flare		J 23673	Mechanical Tube Bender 3/16, 1/4, 5/16 and 3/8 inches

PAST MODEL TOOLS — NOT ILLUSTRATED

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
J270-6	Driver Head	J5948	Dust Seal Installer	J7706	Bearing Remover	J9563	Countershaft Assembly Tool
J270-13	Axle Shaft Oil Seal Installer	J6058	Bending Tool	J7714-08	Carburetor Gauge Set	J9565	Pitman Arm Remover
J816-4	3/16" Screwdriver Bit	J6086	Compressor Installer	J7781	Seal Protector	J9577-01	Carburetor Gauge Set
J1365-A	Spanner Wrench	J6134	Speedo Gear Gauge	J7794	Shim Gauge	J9580	Carburetor Gauge Set
J1592	Bearing Lock Wrench	J6177	Differential Carrier Holding Fixture	J7828	Pinion Bearing Remover	J9622	Pressure Test Fixture
J2044	Support Arm Spreader	J6281	Over Center Adjusting Adapter	J7894	Jacking Fixture	J9627	Brush Retainer
J2182	Retainer Remover	J6185	Axle Housing Spreader	J8029	Piston Ring Remover—3 3/4"	J9628	Support Block
J2245	Bearing Remover	J6192	Pin Socket Wrench	J8076	Bearing Adjuster Bit	J9629	Head & Bearing Installer
J2545	Checking Gauge	J6213	Bearing Seal Guide	J8142	Piston Ring Remover—3 1/2"	J9630	Needle Bearing Remover & Installer
J2586	Hub Check Gauge	J6245	Pinion Nut Tool—2" Hex	J8333	Bushing Installer	J9657	Wire Harness Remover
J2595	Transmission Band Installer	J6251	Guide Studs	J8345	Bushing Remover & Installer	J9719-01	Seal Protector
J2681	Servo Adjusting Tool	J6255	Bearing Cup Installer	J8346	Bushing Remover & Installer	J9732	Seal Installer
J2996	Bushing Replacer	J6281	Over Center Adjusting Adapter	J8361	Clutch Gear Puller	J9773	Yoke Bearing Installer
J2997	Bushing Remover	J6285	Staking Tool	J8368	Spark Plug Gauge	J9774	Seal Installer
J3066-A	Valve Guide Installer	J6310	Housing Alignment Fixture	J8370	Carburetor Chain Gauge	J10189	Guide Pins
J3197	Bushing Remover	J6405	Spring Holder & Remover	J8438	Nut Wrench	J10208	Carburetor Gauge Set
J3361-01	Transmission Assembly Fixture	J6424	Alignment Gauge	J8450	Muffler Chisel	J10241	3/4" Float Level Gauge
J4262	Transmission Sling	J6504	Remover & Installer Screw	J8534	Bushing Service Set	J21004	Assembly & Disassembly Fixture
J4270	Transmission Press Gauge	J6506	Hood Spring Removing Tool	J8613	Pinion Oil Seal Installer	J21052-7	Harmonic Balancer Template
J4274	Valve Lifter Tool	J6509	Spring Remover & Installer	J8626	Adapter Set	J21138	Carburetor Chain Gauge
J4285	Brake Adjusting Tool	J6556	Bending Tool	J8662	Conversion Kit	J21172	Brake Wrench
J4485	Oil Seal Installer	J6557	Selector Gauge	J8670	Puller & Adapter	J21179	Pivot Pin Remover & Retaining Ring
J4490	Pitman Arm Puller	J6560	Pump Assembly Sleeve	J8765	Neutral Clutch 'C' Washer	J21207-01	Carburetor Gauge Set
J4583	Windshield Seal Breaker	J6584	Oil Seal Installer	J8879-01	Rochester Carburetor Gauge Set	J21215-01	Carburetor Gauge Set
J4637	Trim Panel Remover	J6660	Electric Tachometer	J8885	Pump Bushing Remover	J21216-01	Carburetor Gauge Set
J4653	Governor Wrench	J6838	Wire Gauge .76 x .230	J8890	Spanner Wrench	J21252	Carburetor Gauge Set
J4869	Speedo Gear Remover	J6848	Antenna Wrench	J8891	Speedo Gear Remover	J21262	Brake Bleeder Adapter
J5182	Retainer Collar	J6850	Positioning Gauge	J8892	Pin Bearing Installer	J21607	Carburetor Chain Gauge Set
J5186-A	Piston Ring Compressor	J6965	Oil Seal Remover	J8893	Pin Bearing Remover	J21608	Carburetor Chain Gauge Set
J5190-01	Bearing Remover	J7009-01	Transmission Holding Fixture	J8913	Pinion Oil Seal Installer	J21611	Stamp Set
J5191	Lower Worm Shaft Bearing Installer	J7013	Bearing Driver Set	J8954	Moulding Clip Tool	J21615-01	Carburetor Chain Gauge
J5224	Front Spring Compressor	J7053	Bushing Remover & Installer	J8957	Water Pump Adapter	J21622	Carburetor Chain Gauge Set
J5238	Lifter Disassembly Tool	J7108	Slide Hammer Puller Assembly	J8974	Engine Support Hooks	J21623	Carburetor Chain Gauge Set
J5259	Bearing Nut Wrench	J7120	Bearing Cup Installer	J9160	Transmission Gauge	J21624	Carburetor Chain Gauge Set
J5297-01	Autronic Tester	J7132	Oil Seal Installer	J9164	Transmission Bearing Installer	J21625-01	Carburetor Gauge Set
J5386-01	Oil Seal Driver	J7134	Air-Ride Fittings	J9177	Spacer Set	J21773	Stamp Ext. Holder
J5405-01	Seal Installer	J7143	Spring Compressor	J9194	Axle Shaft Seal Installer	J21944	Carburetor Chain Gauge
J5406	Piston Assembly Ring	J7150	Protractor Gauge	J9213	Throttle Lever Gauge	J21945	Carburetor Chain Gauge
J5430	Ignition Nut Wrench	J7181	Oil Seal Installer	J9269	Throttle Lever Gauge	J21946	Carburetor Chain Gauge
J5433-01	Power Brake Stand	J7296	Tubing Cover Remover	J9277	Companion Flange Adapter Set	J21947	Carburetor Chain Gauge Conversion Kit
J5454	Spanner Wrench	J7392	Lock Nut Wrench	J9293	Carburetor Chain Gauge	J22309	Clutch Bearing Pin Staking Tool
J5457	Float Level Gauge 1/8"	J7411-02	Carter Carburetor Gauge	J9311	Carburetor Chain Gauge	J22381	Carburetor Gauge Set
J5463-01	Bearing Installer	J7504	Transmission Bushing Installer	J9367	Balance Weight Set	J22507	Valve Guide Cutter
J5470	Belt Tightener	J7559	Bushing Remover & Installer	J9406-01	Carburetor Chain Gauge	J22508	Valve Guide Cutter
J5472	Bushing Remover & Replacer	J7574	Bellows Compressor	J9435	Idle Bushing Installer	J22509	Valve Guide Seal Installer
J5494-01	Valve Spring Remover	J7575	Bearing Installer	J9439	Axle Bearing Remover Adapter	J22579	Carburetor Gauge Set
J5502	Drive Shaft Remover	J7585	Seal Protector	J9442	Weatherstrip Tool		
J5503	Oil Seal Remover	J7586-01	Air Conditioning Hose Clamp	J9451	Oil Seal Installer		
J5514	Yoke Remover	J7589	Power Steering Pump End Plate	J9478	Brake Band Pliers		
J5610	Light Switch Remover	J7663	Linkage Pin	J9513	Bushing Remover & Installer		
J5747	Seal Installer			J9528	Propellor Shaft Bearing Remover		
J5794	Spanner Wrench			J9550-02	Carburetor Gauge Set		
J5804	Transmission Gauge			J9559	Hood Spring Remover		
J5805	Skin Depth Gauge						
J5865	Tube Remover						
J5913	Bushing Installer						
J5922	Oil Seal Installer						
J5943	Spring Compressor						
J5946	Oil Seal Remover						



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